# Technical products and services

MAGNETI MARELLI
checkstar
SERVICE NETWORK

Magneti Marelli After Market Parts and Services is a leader in the marketing and distribution of spare parts and services in the automotive sector.
The diversification and extension of its range of products (electrical and electronic, mechanical, body shop, consumables), top quality service, and a high-level Checkstar Service Network scattered throughout the territory are the main features that make Magneti Marelli After Market Parts and Services a valuable reference point for all operators in the automotive spare parts and assistance sector.
Electronics, IT, telematics and system integration: today's automobiles feature widespread use of the most advanced technologies, which result in systems that differ from brand to brand and require specific training and constant professional updating.
Consequently, in order to be competitive in today's increasingly aggressive market, car repairers have to be able to efficiently work on the largest number of cars, be timely in diagnosing faults, in searching for and procuring spare parts and in carrying out repairs.
In short, car repairers must be able to offer their customers a complete, efficient and transparent service.
This is why Magneti Marelli After Market Parts and Services, always working side by side with repairers by offering them advanced, constantly updated and implemented instruments such as access to the Technical Support Help Desk, training courses, and framework agreements with rental companies, has designed and developed an important line of diagnostic equipment and systems (for electronic systems, air conditioners, exhaust gases), as well as diagnostic software and integrated computer tools that can assist workshop technicians in identifying and repairing faults.
This catalogue illustrates the entire range of products and technical services that the Company offers its customers on all markets.
Magneti Marelli After Market Parts and Services has taken great care in preparing this catalogues. It declines all responsibility for any errors it may contain and
reserves itself the right to change its contents with no prior notice. Comments, reports of inaccuracies and any other suggestions aimed at making the next edition of this catalogue even better are especially appreciated.
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MAGNETI MARELLI

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# Serial Diagnosis

# TESTER VISION

007935800020

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exclusive Magneti Marelli know how

## DESCRIPTION

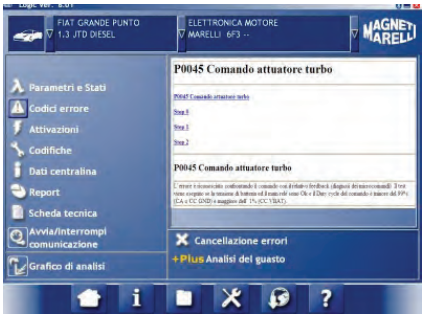
Multi-brand diagnostic tool specifically designed for the workshop environment, with large touch-screen. In addition to complete diagnosis on CARS, TRUCKS and BIKES, it includes a 4-channel oscilloscope in combined sensors/parameters analysis and a digital multimeter.
CNG/LPG leaks analysis probe and an optional endoscope probe complete the application possibilities in a vehicle environment.

It consists of: Tester Vision, OBD diagnosis cable, 1-GB SD card reader, SD card, terminals for oscilloscope and multimeter, instructions manual, CD-ROM software and AC/DC power supply.

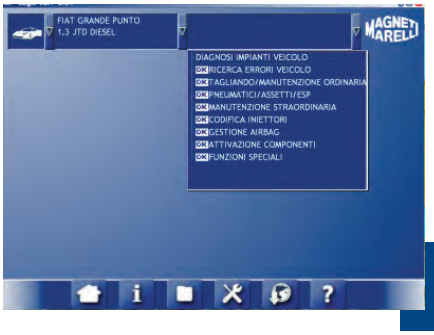
- Impact protection with integrated overprinted rubber
- 800x600 TFT touch-screen display: size 8”, 262144 colours, high brightness and visibility
- Internal Battery with recharging from diagnostic port or external power supply
- Integrated Wireless Communication
- Hardware Expansions: 3 USB ports, endoscope,
- NPG/LPG leak detector
- Supported protocols: KL-ISO9141, ISO14230-K, J1850VPW, J18050PWM, CAN L/H speed, RS485, ISO 15765,
- SAE J2610, ISO11992, SAE J2740, SAE J2411, SAE J1939, ISO 11992, RS232, J2534-3 compliant
- Oscilloscope: 4-channel ADC, sampling frequency 15 MS/s, 8-bit vertical resolution
- Multimeter: 10-bit vertical resolution, electrical isolation of multimeter oscilloscope

## FEATURES

- Vehicle selection with identification of diagnostic outlet and cable to be used
- ECU diagnosis with parameters, statuses, error CODEs reading/ clearing, activations, CODEs
- technical data sheet, work reports, test storage
- Road test with graph display of trends
- OK functions , + Plus Exclusive Magneti Marelli know-how
- Oscilloscope 4 channels in graph form with built-in signal analysis
- Multimeter display for slow signal analysis
- Image acquisition display with endoscope probe
- Leak detection with probe for CNG/LPG and A/C
- Bluetooth connection to PC for remote data and PASS TRU operation
- Diagnosis/Oscilloscope/Technical data integration for troubleshooting starting from error CODEs or faults with automatic oscilloscope setting
- User interface with Portrait / Landscape layout



FIAT GRANDE PUNTO
1.3 JTD DIESEL
ELETTRONICA MOTORE
MARELLI 6F3 ..
Giri Motore 924 Rpm
Posizione Acceleratore 0 %
Sens. Pedale Accelerat. 1 1.00 V
Sens. Pedale Accelerat. 2 0.99 V
Quantità Totale Iniett. 13 mm3/str
Press. Carburante Obiett. 348.00 bar
Allestimento Vettura sonda lambda
Comando valvola EGR ON
Selezione parametri e stati
Salva parametri nel report
+Plus Valori riferimento minimo
+Plus Valori riferimento minimo accelerato



**TESTER VISION (Viewer)** **007935800030**

| ACCESSORIES | CODE |
|---|---|
| Endoscope probe | 007935911960 |
| Leak-detector probe for CNG LPG systems | 007935911970 |
| Leak-detector probe for A/C systems | 007935911980 |
| Docking Station for Tester Vision | 007935800040 |

# TESTER SMART

007935800000

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## DESCRIPTION

Multi-brand diagnostic tool, designed for use in a repair shop on CARS, TRUCKS and BIKES, but especially for tire service, Body shops and Fast Fit, where one type of hand-held instrument with a 3.5-inch colour display, lightweight and practical, is especially convenient.

Standard ACCESSORIESes: Tester Smart, CD-Rom, EOBD cable, battery cable and adapter, cigaret-te lighter, 1GB SD card adapter.

- Display: 3.5”- resolution 320x240 pixels - Colours: 65539 colours
- Data display card: Intel/Marvell PXA270 processor – 32-MB RAM – 16-MB Flash.
- Operating System: Embedded Linux proprietary
- Keyboard: 16 navigation buttons + 1 hardware on/off button
- Supported protocols: ISO9141, ISO14230, J1850PWM, J1850VPW, ISO15765, RS485, ISO15765, C CAN, J2411 Euro 5/6 compatible
- Multiplexer: internal electronic 13 x 2 channels
- Battery: internal with automatic recharging from diagnostic port or external power
- Memory card: 1GB or more
- Power supply: from 8 to 36 V directly from the diagnostic port or via external power connector
- Connections:
- HD26 connector for connecting ECU
- 3p connector for optional external power supply directly from vehicle battery
- through main power supply
- 1 USB master port
- 1 USB slave port
- 1 Serial port

# TESTER LOGIC

007935800010

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## DESCRIPTION

Multi-brand diagnostic tool for CARS, TRUCKS and BIKES, suitable for all applications in the repair sector. The connection to PC via Bluetooth (USB in alternative) allows you to work by taking advantage of all the capabilities of a PC, such as: wide work screen, multitasking, direct printing, Road Test display and analysis, etc.

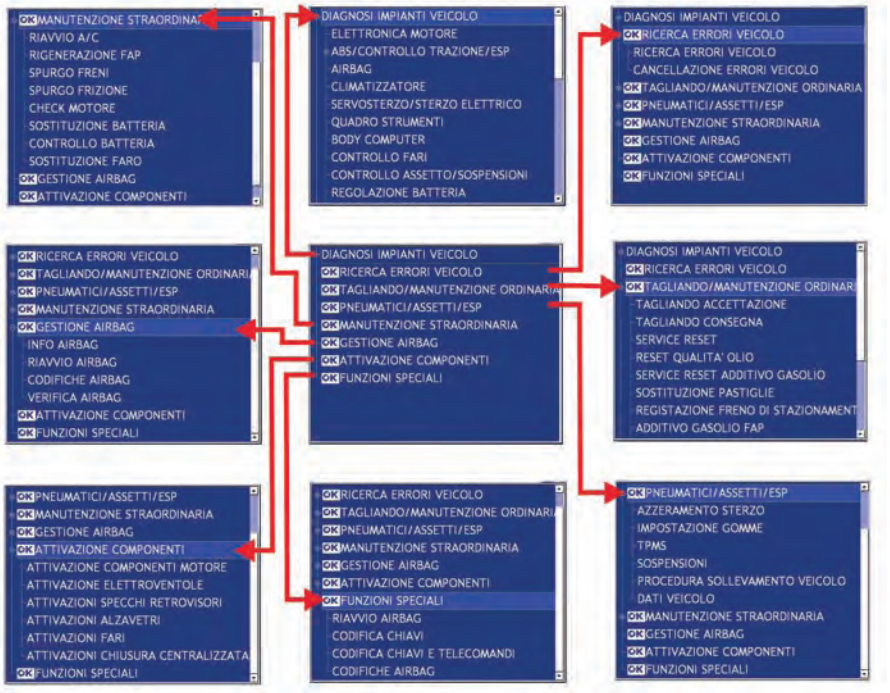
Standard ACCESSORIESes: Tester Smart, CD-Rom, EOBD cable, battery cable and adapter, cigarette lighter, 1GB SD card adapter.

- Real-time card for data communication with ECU: Fujitsu MB96F543 or equivalent with Altera coprocessor \ \ EPM77128SQ or equivalent. 128KB RAM. Operating System: proprietary real time.
- Supported protocols: ISO9141, ISO14230, J1850PWM, J1850VPW, ISO15765, RS485, ISO15765, CAN C
- J2411 Euro 5/6 compatible
- Multiplexer: electronic internal 13 x 2 channels.
- Power supply: from 8 to 36 V directly from the diagnostic port or through external power supply connector.
- Connections:
- HD26 connector for connection to ECU
- 3p connector for optional external power supply directly from vehicle battery or through mains power supply
- 1 USB PC connection port
- Bluetooth: Internal Class 1

# OK FUNCTIONS

They help technicians complete a series of tasks that would otherwise need to be carried out individually.

Simply press the OK function and wait for the end of the operation, and you can be certain that the instrument has carried out all the right steps (reset, initialization etc.) to complete the operation in the best way possible and with no possibility of errors.






# SPECIAL FEATURES

These are all those “reserved” functions that require some care in order to properly complete them.

With our tool, just follow the instructions to correctly reach the end.

The “key coding procedure” is shown in the figure.

# PARAMETERS COMPARISON

+Plus
exclusive Magneti Marelli know how

**Parameters comparison display:**
Magneti Marelli's know-how in diagnostic tools to help vehicle repairers find the solution to the problem, with innovative tools capable of sharing the experience and the use of the tool itself.

Display of benchmarks at idle speed (800 - 1000 rpm) and at accelerated idle speed (2500 – 2800 rpm). This Plus allows the technician to have at a glance, an indication of the accuracy of the displayed parameter by comparison with standard ones found.

ELETTRONICA MOTORE - MARELLI 6JF CF3
Riconoscimento tipo cambio... MEI
Riconoscimento tipo cambio (P1302)
premere ◄┘ per cancellare gli errori
+Plus Premere 0 per Analisi Guasto
ELETTRONICA MOTORE - BOSCH 15C7
Regime giri motore 1028 1200
Massa aria obiettivo 285.0 200
Apertura EGR 25.00 30
Temperatura Acqua 80.1 80
Misuratore Massa aria 205.00 10
Numero giri motore(Rpm)
Premere ◄┘ per selezione Parametri
Premere 1 per salvare i dati
+Plus Premere 2 per valori riferimento minimo
ELETTRONICA MOTORE - BOSCH 15C7
me giri motore 6682 Rpm
a aria obiettivo 307.0 mg/h
tura EGR 47.00 %
peratura Acqua 80.3 °C
ratore Massa aria 227.00 V
ero giri motore
ere ◄┘ per selezione Parametri
ere 1 per salvare i dati
s Premere 2 per valori riferimento minimo
s Premere 3 per valori riferimento minimo accel.



# GUIDED DIAGNOSIS FOR MAGNETI MARELLI SYSTEMS

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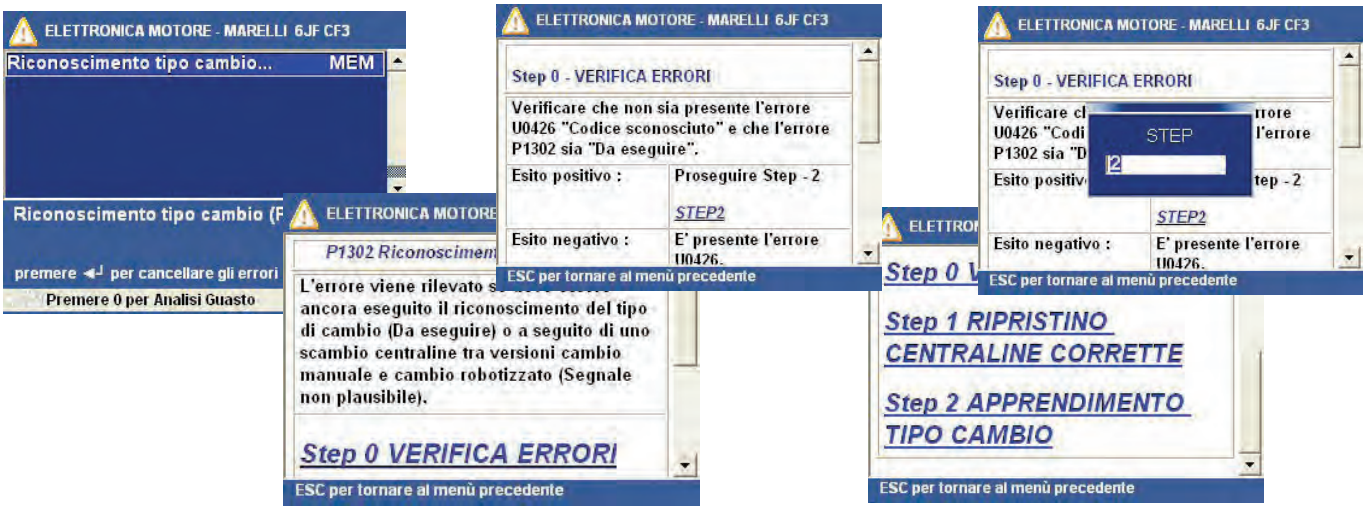
This PLUS is a step-by- step guide to help diagnose the problem reported by the engine ECU through the display of an EOBD error CODE.
On the display, the error description will appear first, followed by a series of steps that need to be carried out in order to diagnose and solve the problem in a simple and safe manner.


ELETTRONICA MOTORE - MARELLI 6JF CF3
Riconoscimento tipo cambio... MEM
Riconoscimento tipo cambio (F
premere ◄┘ per cancellare gli errori
Premere 0 per Analisi Guasto
ELETTRONICA MOTORE - MARELLI 6JF CF3
Step 0 - VERIFICA ERRORI
Verificare che non sia presente l'errore U0426 "Codice sconosciuto" e che l'errore P1302 sia "Da eseguire".
Esito positivo : Proseguire Step - 2
STEP2
Esito negativo : E' presente l'errore U0426.
ESC per tornare al menù precedente
ELETTRONICA MOTORE
P1302 Riconoscimem
L'errore viene rilevato s
ancora eseguito il riconoscimento del tipo di cambio (Da eseguire) o a seguito di uno scambio centraline tra versioni cambio manuale e cambio robotizzato (Segnale non plausibile).
Step 0 VERIFICA ERRORI
ESC per tornare al menù precedente
ELETTRONICA MOTORE - MARELLI 6JF CF3
Step 0 - VERIFICA ERRORI
Verificare ch rrore
U0426 "Codi l'errore
P1302 sia "D
STEP
2
Esito positiv tep - 2
STEP2
Esito negativo : E' presente l'errore U0426.
ESC per tornare al menù precedente
ELETTRO
Step 0 V
Step 1 RIPRISTINO CENTRALINE CORRETTE
Step 2 APPRENDIMENTO TIPO CAMBIO
ESC per tornare al menù precedente

# INFO SERVICE

**+Plus**
**exclusive Magneti Marelli know how**

Depending on the selected model, it will be possible to display all the technical notes gathered by the Magneti Marelli Technical Support Help Desk concerning problems and critical issues, along with their solutions.
A database that is always on hand.

## INFOSERVICE

SPEED INFORMATION

DATA : May 2009
Emission: call center

CAR MODEL :

BMW SERIE 3 (E90) ALL – WITH ELECTRONIC CONTROL OF TYRE PRESSURE

ERROR RESETTING PROCEDURE FOR TIRE PRESSURE - CAR WITHOUT A SPECIFIC RESET BUTTON

1-Turn the key on in "MAR"
2-Using the left lever of the steering wheel (exchange beam-lights) into the reset menu, scroll until on the odometer display you'll see the tyre symbol IN-IT
3-Select the key function with the BC button on the same lever
4- Hold the button for 4 seconds until the tire symbol will disappear on the odometer display
5-Automatically, the tire pressure error message will disappear

## INFOSERVICE

SPEED INFORMATION

DATA : 04/05/2010
Ente emittente: Call center

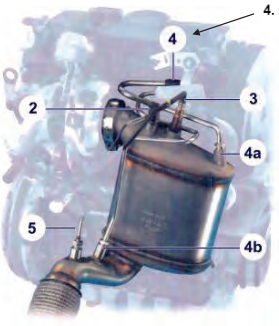
MARCA / MODELLO / ANNO: Volkswagen GOLF V 2.0 TDI 16V motore BMN anno 2006

DESCRIZIONE INCONVENIENTE: spia FAP accesa e spia candelette lampeggiante

ERRORI RILEVATI: In diagnosi con tester è possibile rilevare la presenza di uno o più errori:
errore filtro del particolato bancata 1 sensore 1 di temperatura dei gas di scarico
errore 407 sensore differenza di pressione filtro antiparticolato - segnale non plausibile –
errore 388 -Sensore differenza di pressione filtro antiparticolato - tensione troppo alta.

SOLUZIONE ASSISTENZIALE: Sostituire il sensore pressione differenziale codice volkswagen 076906051 ( vedi immagine con posizione del componente 4 )

ILLUSTRAZIONE




## INFOSERVICE

SPEED INFORMATION

DATA : 20/11/2009
Ente emittente: Call center

MARCA / MODELLO / ANNO: SMART W450 FORTWO BENZINA T.T - FINO ANNO 2007

DESCRIZIONE INCONVENIENTE:
- AVARIA LUCI STOP
- SU DISPLAY SELEZIONE MARCE COMPARE SEMPRE "0"
- SULLA VETTURA NON ENTRA LA RETROMARCIA

ERRORI RILEVATI: COLLEGANDOSI CON STRUMENTO DI DIAGNOSI SI RILEVA: INTERRUTTORE PEDALE STOP

SOLUZIONE ASSISTENZIALE: DOPO AVER SOSTITUITO L'INTERRUTTORE STOP, ENTRARE IN DIAGNOSI SU ABS ED EFFETTUARE TEST ATTUATORI (ELETTROVALVOLE)
L'ERRORE SI CANCELLA DA SOLO E LA VETTURA TORNA A FUNZIONARE REGOLARMENTE

ATTENZIONE: LA SOLA SOSTITUZIONE DELL'INTERRUTTORE STOP SU PEDALE, NON RISOLVE IL PROBLEMA NE' TANTOMENO PERMETTE LA CANCELLAZIONE DELL'ERRORE CON TESTER DI DIAGNOSI.

# OBD ROAD

**007935800050**

## DESCRIPTION

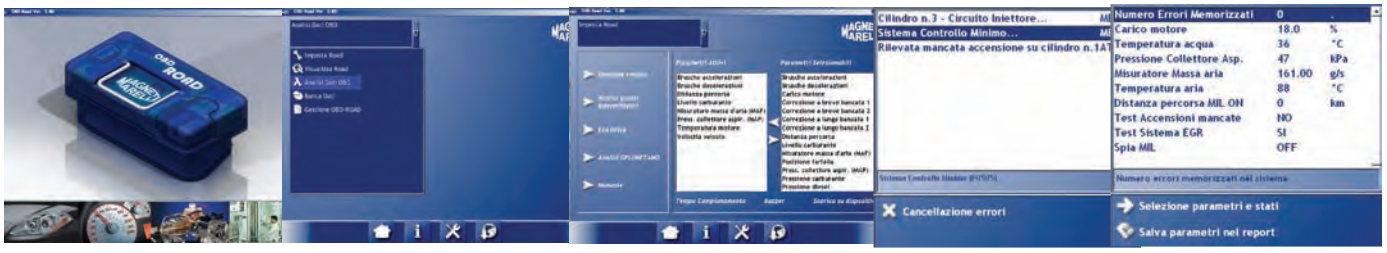
Module to be connected to the vehicle OBD socket that stores parameters relating to journey and vehicle use and also displays errors while driving. A programmable buzzer, in case of intermittent failures analysis setting, directly informs the user of any anomalies that occur during the trip. Product features also include real-time diagnostics (EOBD) with error deletion, eco-drive function, analysis of CNG/LPG equipment and the possibility to display the acquired data in graph form.

It consists of: OBD-Road, CD-Rom software, instructions manual and USB connection cable.

- 4-MB internal memory for data storage.
- More than 170 hours of recording with 8 parameters acquired simultaneously every 5 seconds (frequency may vary depending on the selected parameters (max 8) and the sampling rate (max 0.5 sec)).
- High-efficiency LED to report the operating status.
- Buzzer sound to signal events (errors, programmed conditions, etc.).
- Communication protocols: SAEJ1850VPW, SAEJ1850PWM, ISO 9141, ISO 14230, ISO 11898 CAN.
- Automatic search of communication protocol found on the vehicle.
- 32-bit ARM Processor - 512KB system memory.
- USB 2.0 port for PC connection.
- Software updates via the Internet
- Compatibility with Windows XP, Vista and Seven operating systems (32-bit and 64-bit).
- 12 to 24V power supplies (ready for Truck–Bus applications).
- Lithium battery rechargeable directly from the vehicle EOBD socket.
- Coupling system tested to prevent accidental disconnections.
- Dimensions: 43.50 x 22.50 x 25.15 mm. Weight: 20 g Operating temperature: from - 40° to + 85° C.
- Automotive applications type-approval: E24 10R-030 604.

## FEATURES

- Data log with storage and subsequent analysis to check for faults/consumptions.
- Analysis of driving style aimed at improving fuel consumption or pre/post-maintenance vehicle comparisons.
- On-board control system with acoustic signal programmable from PC (i.e. strong accelerations, exceeding of speed limits, rpms, etc.)
- Verification of CNG or LPG systems tuning.
- Printing of vehicle monitoring reports.
- Setting of sampling interval from PC.
- Real-time EOBD diagnostics with reading of parameters, display/deletion of errors (including P1XXX), freeze-frame function and connector positioning.
- Graph analysis of acquired data.
- ECO-DRIVE function for driving style management.


Cilindro n.3 - Circuito Iniettore...
Sistema Controllo Minimo...
Rilevata mancata accensione su cilindro n.1
Numero Errori Memorizzati 0
Carico motore 18.0 %
Temperatura acqua 36 °C
Pressione Collettore Asp. 47 kPa
Misuratore Massa aria 161.00 g/s
Temperatura aria 88 °C
Distanza percorsa MIL ON 0 km
Test Accensioni mancate NO
Test Sistema EGR SI
Spia MIL OFF
Cancellazione errori
Selezione parametri e stati
Salva parametri nel report

# BODY TESTER FGA

007935800015

## DESCRIPTION

Diagnostic tool developed in collaboration with FGA (Fiat Auto Group) Service Engineering specifically for Fiat, Alfa Romeo, Lancia, Fiat Professional and Abarth vehicles. FGA Body Tester is a hand-held instrument with 3.5" colour display, lightweight and practical since it satisfies the increasing demands of body shops concerning easy use and support for vehicle inspection during the acceptance/estimate drafting phase and vehicle delivery after error reset (turning off of pilot lights) and repair.

- Display: 3.5"- Resolution 320x240 pixels Colours: 65539
- Data display card: Intel/Marvell PXA270 processor - 32MB RAM - 16MB Flash Operating System:
- Embedded proprietary Linux
- Keyboard: 16 navigation buttons + 1 hardware on/off button
- Supported protocols: ISO9141, ISO14230, J1850PWM, J1850VPW, ISO15765, RS485, ISO15765 C CAN, J2411 Euro 5/6 compatible
- Multiplexer: electronic internal 13 x 2 channels
- Internal battery with automatic recharging from diagnostic port or external power supply
- Memory card: 1GB or more
- Power supply: from 8 to 36 V directly from diagnostic port or through external power supply connector
- Connections:
- HD26 connector for ECU connection
- 3p connector for optional external power supply directly from vehicle battery or through mains power supply
- 1 USB master port
- 1 USB slave port
- 1 Serial port: from -40° to + 85° C.
- Automotive applications type-approval:
- E24 10R-030604 14 serial diagnostics

## FEATURES

### ACCEPTANCE

- Vehicle errors automatic scan
- Engine components activation
- Solenoid valve activation (engine)
- Rear-view mirrors activation
- Window lifter activation
- Lights activation
- Central lock activation

### DELIVERY

- Error deletion

### PROCESSING

- Restart of Air Conditioning
- ESP Steering Angle Adjustment
- Suspension
- Key encryption
- Remote controls encoding
- Airbag encoding
- ECUs configuration encoding

### TRADITIONAL DIAGNOSTICS

ABS/Traction Control/ESP - Airbag - Climate Control - Power Steering/Electrical Steering - Immobiliser - Central Lock - Instrument Panel - Body Computer - Comfort - Alarm - Can Network - Lights control - Gearbox electronics - Transmission Electronics - Engine Electronics - Door Control - Suspension/Trim control - Seats/Mirrors adjustment - Parking Assistance - Display Info Control - Electrical Steering - Block - Body module - Parking Brake - Commands Console Control

# ACCESSORIES DIAGNOSIS

## PREMIUM TROLLEY 007935830170

**DESCRIPTION**

Diagnostic equipment trolley.
Trolley equipped with shelves perfect for instrumentation, with tool drawer and practical handles for easy handling.

Four pivoting wheels for easy movement on all surfaces.

The main shelf and the top shelf are covered with anti-skid rubber.

The entire trolley is treated with scratch-resistant paint.

## EUROPE CABLE CASE 007935900390

**COMPOSITION**

Ford cable - VAG cable - Opel cable - Renault cable - PSA 2-way cable – PSA 30-way cable - BMW cable - Mercedes cable - Sprinter cable - Iveco Daily cable - Fiat cable – Battery power supply cable

## ASIA CABLE CASE 007935900400

**COMPOSITION**

Daewoo cable - Ssangyong cable - Hyundai cable - Mitsubishi cable - Nissan cable - Kia cable - Toyota cable - Honda cable - Suzuki cable - Subaru cable - Suzuki Adapter – battery power supply cable

## BIKE CABLE CASE 007935900410

**COMPOSITION**

Universal cable - Benelli cable - Aprilia cable - Kawasaki cable - Peugeot cable - Harley cable - BMW cable - Honda cable - Honda (Ditec) cable - BMW 2 cable - Honda (PGM-FI) cable - Suzuki cable
Kawasaki 2 cable - Ducati adapter - Battery power supply cable

## VALIGIA CAVI TRUCK 007935900420

**COMPOSITION**

Renault cable - Mercedes cable - Iveco cable - Scania / Daf cable - Volvo cable - Astra cable - 37-way Man cable - 12-way man cable - Fiat cable - Extension cable - Battery power supply cable

## TRAILER CABLE CASE 007935900430

**COMPOSITION**

American Truck cable - Wabco Knorr cable - Haldex cable - Haldex EB cable - Universal cable

| ACCESSORIES | CODE |
|---|---|
| Bluetooth key | 007950006420 |
| 220 V mains power supply | 007935830020 |
| Cigarette lighter cable | 007935830030 |
| SMART lithium battery | 007935830150 |
| Diagnostic cable 547 battery | 007935900470 |
| Diagnostic cable 600 universal connection | 007935900480 |
| Diagnostic cable 604 Ford 3-5 way | 007935900490 |
| Diagnostic cable 605 VAG 2-wat | 007935900500 |
| Diagnostic cable 607 Fiat | 007935900510 |
| Diagnostic cable 610 OPEL | 007935900520 |
| Diagnostic cable 612 Renault 12-way | 007935900530 |
| Diagnostic cable 620 PSA 2-way | 007935900540 |
| Diagnostic cable 641 EOBD 16-way | 007935900550 |
| Diagnostic cable 642 PSA 30-way | 007935900560 |
| Diagnostic cable 643 BMW | 007935900570 |
| Diagnostic cable 646 3-m extension | 007935900580 |
| Diagnostic cable 648 MERCEDES | 007935900590 |
| Diagnostic cable 649 DAEWOO | 007935900600 |
| Diagnostic cable 650 SPRINTER | 007935900610 |
| Diagnostic cable 651 IVECO Commercial Daily | 007935900620 |
| Diagnostic cable 652 HYUNDAY-MITSUBISHI | 007935900630 |
| Diagnostic cable 653 NISSAN | 007935900640 |
| Diagnostic cable 655 KIA | 007935900650 |
| Diagnostic cable 658 MAZDA 17-way | 007935900660 |
| Diagnostic cable 658 TOYOTA 17-way | 007935900670 |
| Diagnostic cable 659 HONDA 3/5-way | 007935900680 |
| Diagnostic cable 661 SUZUKI 4/6-way | 007935900690 |
| Diagnostic cable 663 SUBARU 9-way | 007935900700 |

# ACCESSORIES DIAGNOSIS

| ACCESSORIES | CODE |
|---|---|
| Diagnostic cable 668 CAN SAE J1939 | 007935900710 |
| Diagnostic cable 670 DAV and SCANIA | 007935900720 |
| Diagnostic cable 671 VOLVO TRUCK | 007935900730 |
| Diagnostic cable 672 WABCO Trailer | 007935900740 |
| Diagnostic cable 673 Iveco Truck | 007935900750 |
| Diagnostic cable 674 MAN Truck | 007935900760 |
| Diagnostic cable 678 MAN Truck 2 | 007935900770 |
| Diagnostic cable 679 Trailer connection | 007935900780 |
| Diagnostic cable 681 Haldex (line CAN) | 007935900790 |
| Diagnostic cable 684 Haldex (line K) | 007935900800 |
| Diagnostic cable 700 Renault Truck 12-way | 007935900810 |
| Diagnostic cable Kawasaki (‘03-’06) | 007935900820 |
| Diagnostic cable Kawasaki (‘07>) | 007935900830 |
| Diagnostic cable Suzuki | 007935900840 |
| Diagnostic cable Honda ‘06 | 007935900850 |
| Diagnostic cable BMW | 007935900860 |
| Diagnostic cable Honda 3 pin | 007935900870 |
| Diagnostic cable Aprilia | 007935900880 |
| Diagnostic cable Benelli | 007935900890 |
| Diagnostic cable Harley Davidson ‘00 | 007935900900 |
| Diagnostic cable Peugeot | 007935900910 |
| Diagnostic cable BMW 2 | 007935900920 |
| Diagnostic cable Honda Immobilizer | 007935900930 |
| Diagnostic cable KTM | 007935900940 |
| Diagnostic cable Ducati > ’08 | 007935900950 |

# ASIAN GOLD*

007920004500

## DESCRIPTION

Multi-brand diagnostic tool, suited for professional car repairers that simply need the best in the diagnosis of Asian, Chinese, Australian and American automobiles. ASIAN GOLD is a hand-held instrument equipped with a high-visibility 3.5" display, lightweight and practical.

1 Communication protocol:
- OBD-(ISO 9141-5, SAE-J1850)
- KWP-2000
- CAN BUS communication support
- SAE-J1587

2 LED-backlit LCDs:
- Resolution 320x240
- 40 columns x 12 lines

3 Storage Capacity:
- 256MB

4 Keyboard:
- Soft-touch keypad type
- 25 keys

5 Dimensions:
- 125 (W) x 223 (L) x 68/43 (D) mm
- Weight approx. 500 g

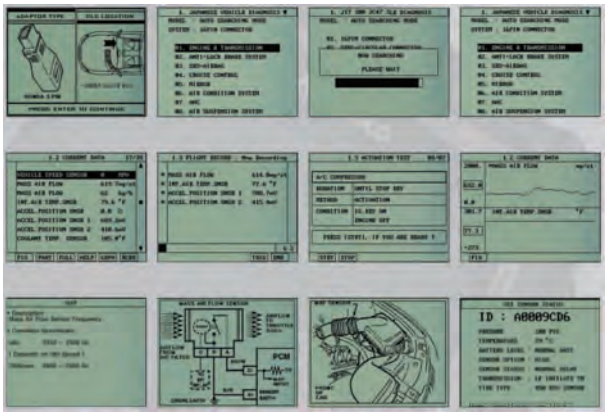
6 Energy consumption:
- 3.6 Watts

7 Voltage:
- 7 ÷ 36V DC

8 Internal Battery

## COMPOSITION

- Hyundai, Mitsubishi cable (12-pin)
- Kia, Mazda adapter (6 +1 pin)
- Kia 20-pin adapter (blue)
- Daewoo, GM adapter (12-pin)
- Ssangyong adapter (14-pin)
- Ssangyong adapter (20-pin)
- Toyota, Lexus adapter (17-pin "r")
- Toyota, Lexus adapter (17pin "c")
- Samsung / Nissan adapter (14-pin)
- Mitsubishi cable (12-pin +16-pin)
- Honda adapter (3-pin)
- Honda adapter (5-pin)
- Mazda adapter "c" (17-pin)
- Subaru adapter (9-pin)
- Can "low speed" adapter



*Available just for several markets

## ASIAN GOLD ENTRY LEVEL* 007920004515

**COMPOSITION**

- Asian gold
- Case
- User Manual
- Main Cable (16-pin)
- Cigarette lighter power supply
- Mains power Supply
- Battery power supply
- SW download CD
- USB cable

*Available just for several markets

## EUROPE ADAPTER CABLES 007920004620

**COMPOSITION**

Audi/VW cable (2+2 pin) - BMW adapter (20-pin) - Benz Black Box 38-pin - Benz cable (3-liner) - Opel adapter (10-pin) - PSA cable (2-pin) - PSA cable (30-pin) - Renault cable (12-pin) - Fiat cable (3-pin)

## AMERICA/AUSTRALIA ADAPTER CABLES 007920004610

**COMPOSITION**

America/Australia kit - Ford cable (20-pin) - Holden adapter (6-pin)

| ACCESSORIES | CODE |
|---|---|
| Multigateway | 007920005530 |
| Hyundai, Mitsubishi cable (12-p) | 007920005650 |
| Kia, Mazda adapter (6+1-p) | 007920005660 |
| Kia adapter 20p (blue) | 007920005670 |
| Daewoo, GM adapter (12-p) | 007920005680 |
| Ssangyong adapter (14-p) | 007920005690 |
| Ssangyong adapter (20-p) | 007920005700 |
| Toyota, Lexus adapter (17-p “r”) | 007920005710 |
| Toyota, Lexus adapter (17-p “c”) | 007920005720 |
| Samsung/Nissan adapter (14-p) | 007920005730 |
| Mitsubishi cable (12-p+16-p) | 007920005740 |
| Honda adapter (3-p) | 007920005750 |
| Honda adapter (5-p) | 007920005760 |
| Mazda “C” adapter (17-p) | 007920005770 |
| Subaru adapter (9-p) | 007920005780 |

| ACCESSORIES | CODE |
|---|---|
| Low speed CAN cable | 007920005790 |
| Audi / VW cable (2+2p) | 007920005800 |
| BMW adapter (20-p) | 007920005810 |
| Benz 38 pin board cable | 007920005820 |
| Benz cable (3-liner) | 007920005830 |
| Opel adapter (10-p) | 007920005840 |
| PSA cable (2-pin) | 007920005850 |
| PSA cable (30-pin) | 007920005860 |
| Renault cable (12-pin) | 007920005870 |
| Fiat adapter (3-p) | 007920005880 |
| Battery Asian gold | 007920004530 |
| Ford cable 20-p | 007920005900 |
| Holden adapter 6-p | 007920005910 |
| Main Gold cable 16-p | 007920005580 |
| Cigarette lighter power supply | 007920005590 |
| Mains power supply | 007920005600 |

# Licences and subscriptions

# FULL CAR LICENSE

007935800100

## DIAGNOSABLE SYSTEMS

- ABS/traction control/ESP
- Airbag
- Parking assistance
- Alarm System
- Radio
- Service reset
- Body computer
- Central lock
- Air-conditioning
- Start with CODE card
- Keys encryption
- Remote control encoding
- Comfort/alarm
- Passenger side control
- ECUs alignment
- Rear-view mirror adjustment
- Instrument panel
- Electric sunroof
- Additives control
- Diesel / Petrol
- Steering angle control
- Suspensions control
- Electronic
- Lights control
- Doors control
- Seats control
- Traction control
- Immobilizer/instrument panel
- Tools
- Tyre control diagnosis
- 4-Wheel Drive electronic guide
- Electronic gearbox
- Front node
- Rear node
- Electronic clutch
- Gearshift lever
- Can network
- Battery recharging
- Monitoring system
- Tyre pressure
- Petrol engine electronics
- Diesel engine electronics
- Steering electronics
- Suspension electronics
- Transmission electronics
- Parking brake
- Immobilizer
- Right light adjustments
- Left light adjustments
- Emergency call module
- Navigator module
- Diesel pump
- Instrument panel
- Headlamps adjustment
- Distance adjustment
- Electronic steering management
- Audio system
- Rear spoiler



## DIAGNOSABLE CARMAKERS

ALFA
ALPINA-BMW
ASTON MARTIN
AUDI
AUTOBIANCHI
BENTLEY
BMW
CADILLAC
CHEVROLET
CHRYSLER
CITROEN
DACIA
DAEWOO
DAIHATSU
DAIMLER
DODGE
FERRARI
FIAT
FORD
GM
HODA
HUMMER
HYUNDAI
INNOCENTI
VECO
JAGUAR
JEEP
KIA
LADA
LAMBORGHINI
LANCIA
LAND ROVER
LEXUS
LOTUS
MASERATI
MAYBACH
MAZDA
MERCEDES
MG
MINI
MITSUBISHI
NISAAN
PAGANI
PEUGEOT
PORSCHE
RANAULT
ROLLS-ROYCE
ROVER
SAAB
SEAT
SMART
SSANGYONG
SUBARU
SUZUKI
TATA
TOYOTA
UAZ
VOVLO
VW

# FULL TRUCK LICENSE

007935800130

## DIAGNOSABLE SYSTEMS

- ABS
- Airbag
- Alarm System
- Body Computer
- Climate Control System
- Keys encryption
- Injector coding
- Hydraulic lift control
- Cylinders compression
- AdBlue Control system
- Door control
- EBS
- Electronic gearbox
- Engine electronics
- Suspension electronics
- Immobilizer module
- Front light module
- Rear light Module
- Modular panel
- Upper modular panel control
- Vehicle engine alignment
- Retarder
- Heating system
- Compressed air system
- Service reset
- Front axle service reset
- Rear axle service reset
- Electronic gearshift service reset
- Air compressor service reset
- Air filter service reset
- 1st front axle brakes reset service
- 1st rear axle brakes reset service
- 2nd front axle brakes reset service
- 2nd rear axle brakes reset service
- General service reset
- Coolant service reset
- Engine service reset
- Periodical service reset
- Retarder service reset
- Distribution service reset
- Electronic steering
- Tachometer
- Tyre pressure monitoring system

## DIAGNOSABLE TRUCK MANUFACTURERS

ASTRA
BOWA BUS
DAF
DE SIMON
IRIS BUS
IVECO
IVECO BUS
MAN
MAN BUS
MERCEDES-BENZ
PETERBILT
RENAULT
SCANIA
SCANIA BUS
VOLVO
VOLVO-BUS

## DIAGNOSABLE TRAILER MANUFACTURERS

ACERBI
ADAMOLI
ADIGE
ANTEO
CARDI
CARLUX
CARMOSINO
CCFC
CHIAVETTA
CTB
DOLL
D-TEC
FELDBINDER
FGM CAR
GOLDHOFER
GONTRAILER
SSBOHRER
KOGEL
KRONE
LECINENA
MEILLER-KIPPER
MENCI
MERKER
MICHIELETTO
MIELE
MINERVA
MONTENEGRO
MULTITRAILER
NARDI
O.ME.P.S.
OMAR
OMPS MACOLA
PAGANINI
PANNISAR
PAVELLI
ROLFO
SHMITZ
SHARWZ
SHARWZMULLER
TABARINI
TABARINI
TALSON
TEKSYSTEM
TECNOKAR
TIRSAN
TRAILOR
VIBERTI
ZORZI

# FULL BIKE LICENSE 007935800140

## DIAGNOSABLE SYSTEMS

- Engine electronics
- Immobilizer
- Service reset
- Traction control
- Timing belt reset service
- Tyre pressure monitoring system
- Throttle position sensor reset
- Robotized gearbox
- Instrument Panel
- ABS

## DIAGNOSABLE MANUFACTURERS

APRILIA
BENELLI
BIMOTA
BMW
CAGIVA
DUCATI
GASGAS
GILERA
GUZZI
HD
HONDA
KAWASAKI
KVN
LAVERDA
MALAGUTI
MONDIAL
MORINI
MV
PEUGEOT
PIAGGIO
SHERCO
SUZUKI
TRIUMPH
VOXAN
YAMAHA

# BODY LICENSE (PRODUCT FOR BODY SHOPS) 007935800120

## DIAGNOSABLE SYSTEMS

### Acceptance

- Vehicle Errors Auto Scan *
- Engine Component Activation
- Solenoid valve activation (engine)
- Rear-view mirrors activation
- Window lifter activation
- Lights activation
- Central Lock activation

### Processing

- Air-conditioning restart
- ESP steering angle adjustment
- Suspension
- Keys encryption
- Remote controls encoding
- Airbag encoding
- ECUs configuration encoding

### Delivery

- Vehicle errors automatic deletion*

*The functions generate a report that can be used both in the acceptance phase (estimate) and in the vehicle delivery phase (statement of work carried out)

### Available traditional diagnosis

- Engine electronics
- ABS/Traction Control/ESP
- Airbag
- Air-conditioning
- Power Steering/Electrical Steering
- Immobilizer
- Central Lock
- Instrument Panel
- Body Computer
- Comfort
- Alarm
- Can Network
- Lights control
- Gearbox electronics
- Transmission electronics
- Doors control
- Trim/Suspensions control
- Seats/Mirrors adjustment
- Parking assistance
- Info display control
- Electrical steering
- Commands Console control
- Parking brake
- Body module
- Steering lock

## TYRE FAST-FIT LICENSE (PRODUCT FOR TYRE REPAIRERS) 007935800110

### DIAGNOSABLE SYSTEMS

**Trim adjustment:**
- Steering angle / ESP calibration
- Parking brake release (Run Out Compensation)
- Active suspensions control
- Steer-by-wire adjustment
- Steering wheels adjustment
- Tyres processing:
- TPMS sensors
- Tyres and/or rims size programme

**Routine Maintenance:**
- Acceptance Coupon*
- Delivery Coupon*
- Service reset
- Oil quality reset
- Brake pads replacement
- Parking brake adjustment

**Extraordinary Maintenance:**
- Engine Check
- FAP regeneration
- Brakes/Clutch bleeding
- Air Conditioning restart
- Brakes electronics management

*The functions generate a report that can be used both in the acceptance phase (estimate) and in the vehicle delivery phase (statement of work carried out)

**Available traditional diagnosis:**
- Engine electronics
- ABS / Traction Control / ESP
- Air Conditioning
- Power Steering / Electrical steering
- Body Computer
- Comfort
- Alarm
- Lights control
- Parking brake

**Electrical**
- Lights control
- External lighting
- Windscreen wipers



## SUBSCRIPTIONS

| DESCRIZIONE | CODE |
|---|---|
| Annual subscription Internet full car | 007935910000 |
| Annual subscription Internet Tyre - Fast Fit | 007935910010 |
| Annual subscription Internet body | 007935910020 |
| Annual subscription Internet full truck | 007935910030 |
| Annual subscription Internet full bike | 007935910040 |
| **Asian subscription** | |
| Annual subscription (Asia + Europe/America) | 007920005000 |
| Annual subscription (Asia) | 007920005010 |
| Annual subscription (Europa/America) | 007920005020 |

# Air-conditioning

MAGNETI MARELLI

# TECH TOP HFO STATION

007950015070

## DESCRIPTION

Recharging and diagnostic station for air conditioning systems that use the new type of HFO-GAS 1234yf.
It integrates fully automatic functions

Brand new equipment for the maintenance of automobile A/C systems, designed for systems that use the new gas 1234yf.
It is a piece of equipment that satisfies U.S. and European safety standards, and also complies with SAE (Society of Automotive Engineers) directives.

The recovery and charging functions have been fine-tuned to ensure the utmost accuracy and extremely easy management of routine and extraordinary maintenance.
The efficiency of the ventilation system provides the best heat dissipation capacity, while the positioning of a tachometer fan at the bottom of the equipment also allows the extraction of gas leaks, channelling them outside through the body shop ventilation systems.

The two recovery modes, designed with a view to satisfy SAE standards as well as to facilitate the operator, meet the needs of work timelines of workshops: the ECO mode provides the highest recovery of gas quantities, while the SPEED mode offers the perfect combination of speed and accuracy.

It features three oil injection modes: quick-coupling glass, with sealed container disposable for PAG oil and the new method for hybrid cars that have to use POE oil.
The innovative service alarms report malfunctions of auto system and maintenance service equipment.

## DETAILS

- Coolant 1234yf
- Integrated database
- Recovery speed 500 g/min
- Nominal pressure 20 bar
- Container capacity 12.4 l
- Coolant scale accuracy 1g
- Oil scale accuracy 1 g

# TECH TOP HFO FGA STATION

007950015080

## DESCRIPTION

Recharging and diagnostic station for air-conditioning systems that use the new type of gas HFO-1234yf.
It integrates fully automatic functions, and it is type-approved by FGA (Fiat Auto Group) for Fiat, Alfa Romeo, Lancia, Fiat Professional and Abarth brands.
Brand new piece of equipment for the maintenance of automobile A/C systems, designed for systems that use the new gas 1234yf.
It meets U.S. and European safety standards, as well as SAE (Society of Automotive Engineers) directives.

The recovery and recharging functions have been fine-tuned to ensure the utmost accuracy and extremely easy management of routine and extraordinary maintenance.

The efficiency of the ventilation system provides the best heat dissipation capacity, while the positioning of a tachometer fan at the bottom of the equipment also allows the extraction of gas leaks, channelling them outside through the body shop ventilation systems.

The two recovery modes, designed with a view to satisfy SAE standards as well as to facilitate the operator, meet the needs of work timelines of workshops: the ECO mode provides the highest recovery of gas quantities, while the SPEED mode offers the perfect combination of speed and accuracy.
It features three oil injection modes: quick-coupling glass, with sealed container disposable for PAG oil and the new method for hybrid cars that have to use POE oil.
The innovative service alarms report malfunctions of auto system and maintenance service equipment.
USB port used to update the database.

## DETAILS

- Coolant 1234yf
- Integrated database
- Recovery speed 500 g/min
- Nominal pressure 20 bar
- Container capacity 12.4 l
- Coolant scale accuracy 1 g
- Oil scale accuracy 1 g

# CLIMA TECH TOP

007950015000

## DESCRIPTION

Recharging and diagnostic station for automotive air-conditioning that features fully automatic operation.

TOP ClimaTech is a fully automatic mobile station used to diagnose and recharge automotive air-conditioning systems, equipped with the latest technologies available on the market.
All taps have been replaced with electronically controlled solenoid valves, for maximum precision and automation of each single phase of the recharging cycle.

The new logic control card, completely redesigned, features a large alphanumeric display with 4 rows x 20 digits (to display workshop data, vehicle data, and other addition information), and an alphanumeric keyboard used to enter numbers and text.
It has a built-in database of the circulating vehicle fleet, with all recharging values (quantity of gas to put in, oil quantity, vacuum time, etc.), with 20 user-customizable free selections, according to needs.

ClimaTech TOP is equipped with a graphic printer used to print the outcome of all the various phases, in order to confirm the success of the operation (the receipt can be personalized with specific workshop information).

## DETAILS

- Coolant R134a.
- 14-cc compressor recovery speed: 500 rpm in liquid.
- Electronic scale accuracy + - 10 g. Max. capacity 60 Kg
- Protection against mechanical stress (SDS).
- Container with operating capacity of 12.4 l (10 kg of R134a).
- Combined filter with molecular sieve.
- Mechanical filter with fine mesh.
- Oil circulation vacuum pump 6.0 m3 / h dual-stage.
- Ventilated condenser
- Factory-fitted graph printer.

# CLIMA TECH TOP FGA

007950015050

## DESCRIPTION

Recharging and diagnostic station for automotive air-conditioning systems featuring fully automatic operation.
It is type-approved by FGA (Fiat Auto Group) for Fiat, Alfa Romeo, Lancia, Fiat Professional and Abarth brands.

ClimaTech TOP is a fully automatic mobile station used to diagnose and recharge automotive air-conditioning systems, equipped with the latest technologies available on the market.

All taps have been replaced by electronically-controlled solenoid valves, for maximum precision and automation of each single phase of the recharging cycle.

The new logic control card, completely redesigned, features a large alphanumeric display with 4 rows x 20 digits (to display workshop data, vehicle data, and other addition information), and an alphanumeric keyboard used to enter numbers and text.
It has a built-in database of the circulating vehicle fleet, with all recharging values (quantity of gas to put in, oil quantity, vacuum time, etc.), with 20 user-customizable free selections, according to needs.

ClimateTech TOP is equipped with a graphic printer used to print the outcome of all the various phases, in order to confirm the success of the operation (the receipt can be personalized with specific workshop information).

## DETAILS

- Coolant R134a.
- 14-cc compressor recovery speed: 500 rpm in liquid.
- Electronic scale accuracy + / - 10 g. Max. capacity 60 Kg
- Protection against mechanical stress (SDS).
- Container with operating capacity of 12.4 l (10 kg of R134a).
- Combined filter with molecular sieve.
- Mechanical filter with fine mesh.
- Oil circulation vacuum pump 6.0 m3 / h dual-stage.
- Ventilated condenser
- Factory-fitted graph printer

# TECH PLUS EVOLUTION STATION

007950015040

## DESCRIPTION

Recharging and diagnostic station for automotive air-conditioning systems featuring automatic or semi-automatic operation.

The automatic mode is used to carry out the scheduled work cycles (recovery, empty, recharge) and system leak tests without operator intervention.

Oil is injected manually with a dedicated solenoid valve, or automatically by setting the oil quantity at the start.

Clima Tech Plus Evolution can also be used in manual mode. The new logic control card, completely redesigned, features an alphanumeric display (in multiple languages) with 4 lines x 20 digits (to display workshop data, vehicle data and other info) and an alphanumeric keyboard used to enter numbers and text.

It can be customized according to customer requirements; printer and memory card available as an option; the memory card has a built-in database of the circulating fleet with gas-oil quantities and vacuum time. In addition, the memory card allows you to create 20 free selections to suit your needs.

## DETAILS

- Coolant R134a.
- 14-cc compressor recovery speed: 500 rpm in liquid.
- Electronic scale accuracy + / - 10 g. Max. capacity 60 Kg
- Protection against mechanical stress (SDS).
- Container with operating capacity of 12.4 l (10 kg of R134a).
- Combined filter with molecular sieve.
- Mechanical filter with fine mesh.
- Oil circulation vacuum pump 6.0 m3 / h
- Ventilated condenser
- Optional printer used to print details for each phase
- Optional Memory Card, SW and updatable database, data backup

# TECH PLUS EVOLUTION FGA STATION

007950015060

## DESCRIPTION

Recharging and diagnostic station for automotive air-conditioning systems with automatic or semi-automatic function.
It is type-approved by FGA (Fiat Auto Group) for Fiat, Alfa Romeo, Lancia, Fiat Professional and Abarth brands.
The automatic mode is used to carry out the scheduled work cycles (recovery, empty, recharge) and system leak tests without operator intervention.

Oil is injected manually with a dedicated solenoid valve, or automatically by setting the oil quantity at the start.

Clima Tech Plus Evolution can also be used in manual mode. The new logic control card, completely redesigned, features an alphanumeric display (in multiple languages) with 4 lines x 20 digits (to display workshop data, vehicle data and other info) and an alphanumeric keyboard used to enter numbers and text.

It can be customized according to customer requirements; printer and memory card available as an option; the memory card has a built-in database of the circulating fleet with gas-oil quantities and vacuum time. In addition, the memory card allows you to create 20 free selections to suit your needs.

## DETAILS

- Coolant R134a.
- 14-cc compressor recovery speed: 500 rpm in liquid.
- Electronic Scale Accuracy / - 10 g. Max. capacity 60 Kg
- Protection against mechanical stress (SDS).
- Container with operating capacity of 12.4 l (10 kg of R134a).
- Combined filter with molecular sieve.
- Mechanical filter with fine mesh.
- Oil circulation vacuum pump 6.0 m3 / h
- Ventilated condenser
- Optional printer used to print details for each phase
- Optional Memory Card, SW and updatable database, data backup

# CLIMA TECH HD EVOLUTION

007950015030

## DESCRIPTION

Recharging and diagnostic station for air-conditioning systems on heavy vehicles such as trucks/ buses, featuring automatic or semi-automatic operation.
In addition to the features of the Plus version, the HD (Heavy Duty) version has a larger storage container and vacuum pump for heavy vehicles and buses.

Both models are equipped with a ventilated condenser installed on the hydraulic system for easier coolant recovery and purification under critical environmental conditions (high temperature and humidity).

## DETAILS

- Coolant R134a.
- 14-cc compressor recovery speed: 500 rpm in liquid.
- Electronic scale accuracy +/- 10 g .Max. capacity 60 Kg
- Protection against mechanical stress (SDS).
- Container with operating Capacity of 27.2 l (21 kg of R134a).
- Combined filter with molecular sieve.
- Mechanical filter with fine mesh.
- Oil circulation vacuum pump 14.3 m3 / h dual-stage.
- Ventilated condenser
- Optional printer and memory card

# SPARE PARTS AND ACCESSORIES

| ACCESSORIES | CODE |
|---|---|
| Nylon covering for Clima tech station | 007950015045 |
| Heating band kit 12.5 l | 007935090760 |
| Heating band kit 27.2 l | 007935090770 |
| Small filter (MM series) recharging maintenance kit | 007950024110 |
| Large filter (Air Check Clima Tech series) recharging maintenance kit | 007950024130 |

# COOLWEATHER PRODUCTS

COOL WEATHER

| | |
|---|---|
| OIL POE 100 1 L | 007935090740 |
| OIL POE 100 PLUS TRACER 1 L | 007935090650 |
| OIL PAG 46 1 L | 007935090660 |
| OIL PAG 100 1 L | 007935090670 |
| OIL PAG 150 1 L | 007935090680 |
| OIL PAG 46 250 ML | 007935090710 |
| OIL PAG 100 250 ML | 007935090720 |
| OIL PAG 150 250 ML | 007935090730 |
| TRACER 250 ML | 007935090640 |
| CONDENSER CLEANER 400 ML | 007950024050 |
| SYSTEM WASHING SPRAY | 007935090630 |

COOL WEATHER

# COOLWEATHER PRODUCTS

| | |
|---|---|
| SINGLE-DOSE PASSENGER COMPARTMENT DISINFECTANT | 007950024020 |

| | |
|---|---|
| OIL POE 100 5 LT | 007950024490 |

| | |
|---|---|
| OIL PAG 46 5 LT | 007950024500 |
| OIL PAG 100 5 LT | 007950024510 |
| OIL PAG 150 5 LT | 007950024520 |

| | |
|---|---|
| SYSTEM WASHING LIQUID 1 L | 007950024530 |
| SYSTEM WASHING LIQUID 5 L | 007950024540 |
| SYSTEM WASHING LIQUID 20 L | 007950024550 |

| | |
|---|---|
| TUBE HP 250 CM WITH UNION 1/4 X 1/4 | 007950013770 |
| TUBE LP 250 CM WITH UNION 1/4 X 1/4 | 007950013760 |

| | |
|---|---|
| QUICK COUPLING HP 90° | 007950013790 |
| QUICK COUPLING LP 90° | 007950013780 |

MAGNETI MARELLI

# COOLWEATHER PRODUCTS

COOL WEATHER

| | |
|---|---|
| QUICK COUPLING HP 180° | 007950024010 |
| QUICK COUPLING LP 180° | 007950024000 |

| | |
|---|---|
| TANK CONNECTION | 007950024100 |

| | |
|---|---|
| QUICK COUPLING FOR BMW | 007950024560 |

| | |
|---|---|
| LEAK-DETECTOR KIT | 007935090120 |

| | |
|---|---|
| THERMOMETER | 007950024030 |

| | |
|---|---|
| SYSTEM WASHING KIT | 007950024060 |

| | |
|---|---|
| SMALL VALVE UNSCREWING TOOL | 007950024350 |

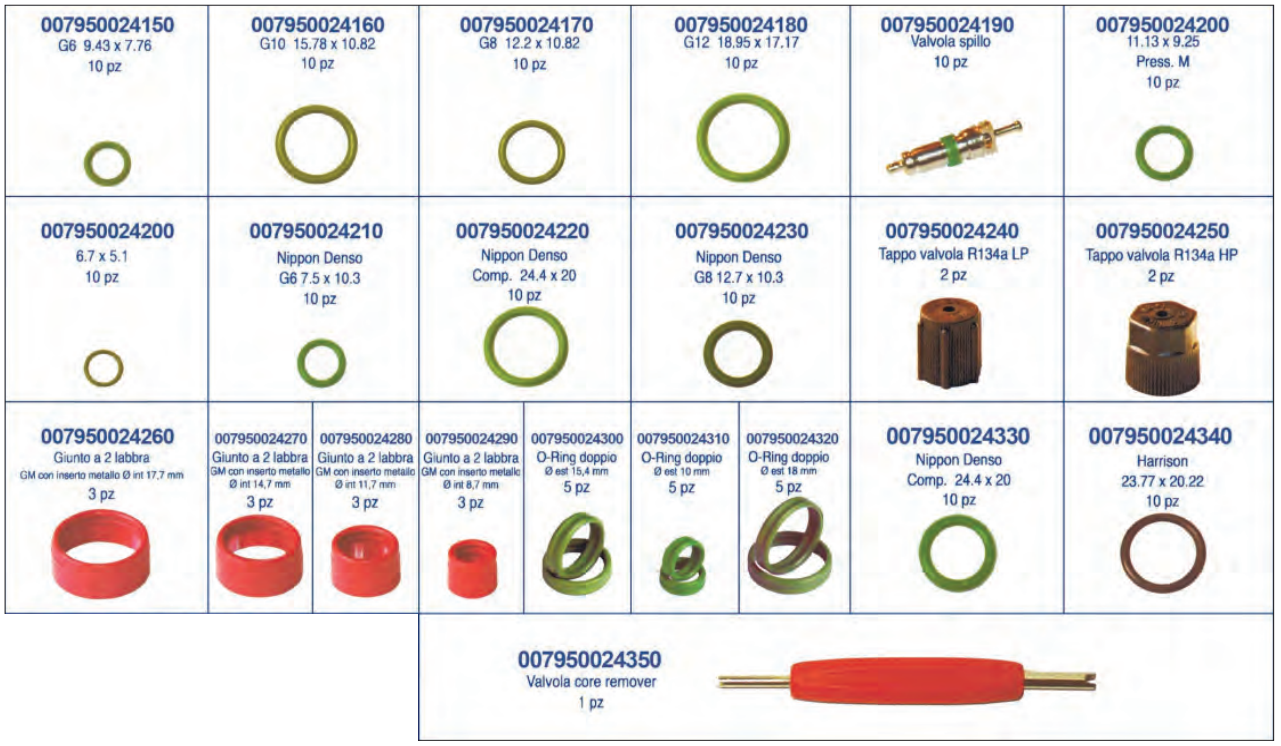
| | |
|---|---|
| QUICK CONNECTION HP M 15X1.0 | 007950024580 |
| QUICK CONNECTION LP M 13X1.0 | 007950024590 |
| HIGH PRESSURE QUICK CONNECTION M 12X1.5 | 007950024600 |

COOL WEATHER

# COOLWEATHER PRODUCTS

## KIT O-ring FIAT GROUP

007935090690




| ACCESSORIES | CODE |
|---|---|
| O-ring no. 6 hose fitting | 007950024150 |
| O-ring no. 10 hose fitting | 007950024160 |
| O-ring no. 8 hose fitting | 007950024170 |
| Evaporator O-ring | 007950024180 |
| Pin valve | 007950024190 |
| O-ring 11.13 X 9.25 Press. M | 007950024200 |
| O-ring 6.7 X 5.1 | 007950024205 |
| O-ring 7.5 X 10.3 G6 denso | 007950024210 |
| O-ring 24.4 X 20 comp. Denso | 007950024220 |
| O-ring 12.7 X 10.3 G8 denso | 007950024230 |
| Valve cap R134a LP | 007950024240 |
| Valve cap R134a HP | 007950024250 |
| O-ring 2-lip seal with metal insert internal diameter 17.7 mm | 007950024260 |
| O-ring 2-lip seal with metal insert internal diameter 14.7 mm | 007950024270 |



MAGNETI MARELLI

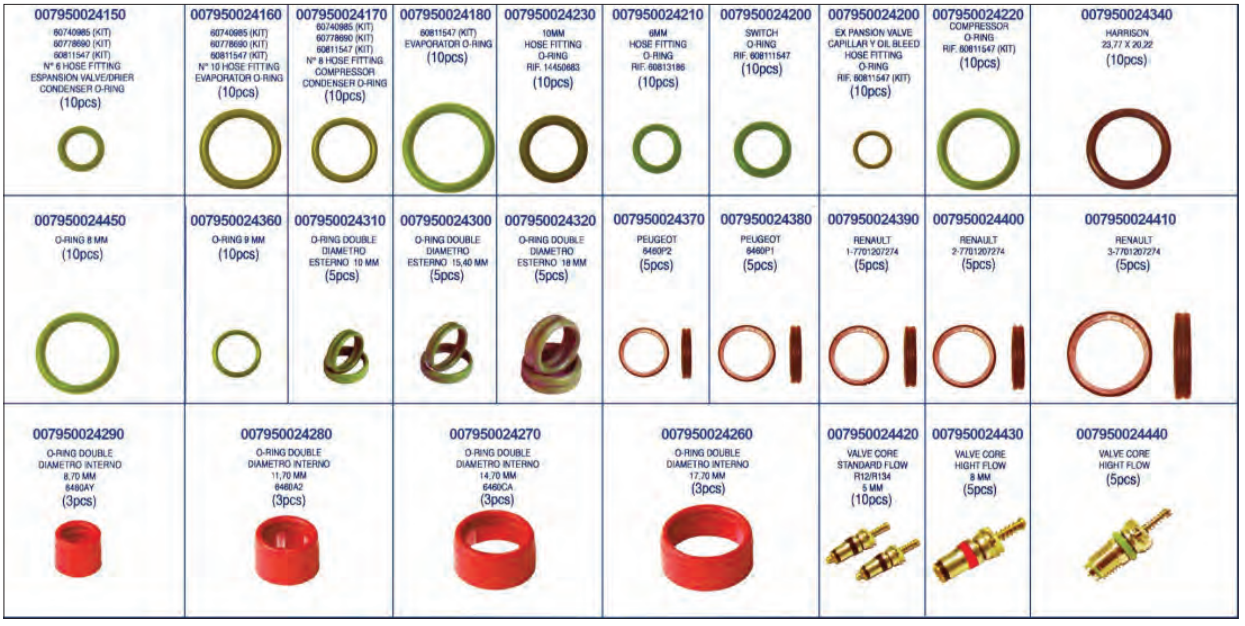
# COOLWEATHER PRODUCTS

COOL WEATHER

| ACCESSORIES | CODE |
|---|---|
| O-ring 2-lip seal with metal insert internal diameter 11.7 mm | 007950024280 |
| O-ring 2-lip seal with metal insert internal diameter 8.7 mm | 007950024290 |
| Double O-ring external diameter 15,4 mm | 007950024300 |
| Double O-ring external diameter 10 mm | 007950024310 |
| Double O-ring external diameter 18 mm | 007950024320 |
| O-ring 24.4 X 20 Denso Compr. | 007950024330 |
| O-ring 23.77 X 20.22 Harrison Compr. | 007950024340 |
| Small valves unscrewing tool | 007950024350 |

## MULTI-BRAND O-ring KIT

007935090750




| ACCESSORIES | CODE |
|---|---|
| O-ring n° 6 hose fitting | 007950024150 |
| O-ring n° 10 hose fitting | 007950024160 |

COOL WEATHER

# COOLWEATHER PRODUCTS

| ACCESSORIES | CODE |
|---|---|
| O-ring n° 8 hose fitting | 007950024170 |
| Evaporator O-ring | 007950024180 |
| O-ring 11.13 X 9.25 Press. M | 007950024200 |
| O-ring 7.5 X 10.3 G6 denso | 007950024210 |
| O-ring 24.4 X 20 comp. Denso | 007950024220 |
| O-ring 12.7 X 10.3 G8 denso | 007950024230 |
| O-ring 2-lip seal with metal insert internal diameter 17.7 mm | 007950024260 |
| O-ring 2-lip seal with metal insert internal diameter 14.7 mm | 007950024270 |
| O-ring 2-lip seal with metal insert internal diameter 11.7 mm | 007950024280 |
| O-ring 2-lip seal with metal insert internal diameter 8.7 mm | 007950024290 |
| Double O-ring external diameter 15,4 mm | 007950024300 |
| Double O-ring external diameter 10 mm | 007950024310 |
| Double O-ring external diameter 18 mm | 007950024320 |
| O-ring 23.77 X 20.22 Compr. Harrison | 007950024340 |
| O-ring 8 mm | 007950024450 |
| O-ring 9 mm | 007950024360 |
| Peugeot 6460p2 | 007950024370 |
| Peugeot 6460p1 | 007950024380 |
| Renault 1-7701207274 | 007950024390 |
| Renault 2-7701207274 | 007950024400 |
| Renault 3-7701207274 | 007950024410 |
| High flow small valve | 007950024440 |
| Small valve 8 mm | 007950024430 |
| Small valve 5 mm | 007950024420 |

# COOLWEATHER PRODUCTS

COOL WEATHER

## KIT WITH SPECIAL O-rings

007950024090

| ACCESSORIES | CODE |
|---|---|
| Double O-ring external diameter 15,4 mm | 007950024300 |
| Double O-ring external diameter 10 mm | 007950024310 |
| Double O-ring external diameter 18 mm | 007950024320 |
| Peugeot 6460p2 | 007950024370 |
| Peugeot 6460p1 | 007950024380 |
| Renault 1-7701207274 | 007950024390 |
| Renault 2-7701207274 | 007950024400 |
| Renault 3-7701207274 | 007950024410 |
| O-ring 2-lip seal with metal insert internal diameter 17.7 mm | 007950024260 |
| O-ring 2-lip seal with metal insert internal diameter 14.7 mm | 007950024270 |
| O-ring 2-lip seal with metal insert internal diameter 11.7 mm | 007950024280 |
| O-ring 2-lip seal with metal insert internal diameter 8.7 mm | 007950024290 |

COOL WEATHER

# COOLWEATHER PRODUCTS

## KIT O-RING STANDARD

007950024080

| ACCESSORIES | CODE |
|---|---|
| O-ring no. 6 hose fitting | 007950024150 |
| O-ring n° 10 hose fitting | 007950024160 |
| O-ring n° 8 hose fitting | 007950024170 |
| Evaporator O-ring | 007950024180 |
| O-ring 11.13 X 9.25 Press. M | 007950024200 |
| O-ring 6.7 X 5.1 | 007950024205 |
| O-ring 7.5 X 10.3 G6 denso | 007950024210 |
| O-ring 12.7 X 10.3 G8 denso | 007950024230 |
| O-ring 24.4 X 20 Denso comp. | 007950024220 |
| O-ring 23.77 X 20.22 Harrison Compr. | 007950024340 |
| High flow small valve | 007950024440 |
| O-ring 9mm | 007950024360 |

# COOLWEATHER PRODUCTS

COOL WEATHER

## SMALL VALVES KIT

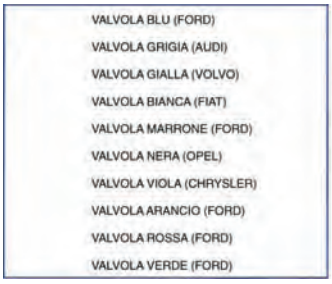
007950024070

| ACCESSORIES | CODE |
|---|---|
| Pin valve | 007950024190 |
| High flow small valve | 007950024440 |
| Small valve 8 mm | 007950024430 |
| VW valve gm | 007950024460 |
| Standard valve 8 mm | 007950024470 |
| Standard valve 10 mm | 007950024480 |



## CIGARETTE VALVES KIT

007950024570



# O-RING COMPOSITION

| COOL WEATHER | O-RINGS TABLE | |
|---|---|---|
| CODE | DESCRIZIONE | CONFEZIONI |
| 007950024150 | O-ring n° 6 hose fitting | 10 pieces |
| 007950024160 | O-ring n° 10 hose fitting | 10 pieces |
| 007950024170 | O-ring n° 8 hose fitting | 10 pieces |
| 007950024180 | Evaporator O-ring | 10 pieces |
| 007950024200 | O-ring 11.13 X 9.25 Press. M | 10 pieces |
| 007950024205 | O-ring 6.7 X 5.1 | 10 pieces |
| 007950024210 | O-ring 7.5 X 10.3 G6 Denso | 10 pieces |
| 007950024220 | O-ring 24.4 X 20 comp. Denso | 10 pieces |
| 007950024230 | O-ring 12.7 X 10.3 G8 denso | 10 pieces |
| 007950024260 | O-ring 2-lip seal with metal insert internal diameter 17.7 mm | 3 pieces |
| 007950024270 | O-ring 2-lip seal with metal insert internal diameter 14.7 mm | 3 pieces |
| 007950024280 | O-ring 2-lip seal with metal insert internal diameter 11.7 mm | 3 pieces |
| 007950024290 | O-ring 2-lip seal with metal insert internal diameter 8.7 mm | 3 pieces |
| 007950024300 | Double O-ring external diameter 15.4 mm | 5 pieces |
| 007950024310 | Double O-ring external diameter 10 mm | 5 pieces |
| 007950024320 | Double O-ring external diameter 18 mm | 5 pieces |
| 007950024330 | Nippon denso comp. 24.4 X 20 | 10 pieces |
| 007950024340 | O-ring 23.77 X 20.22 Harrison Compr. | 10 pieces |
| 007950024360 | O-ring 9 mm | 10 pieces |
| 007950024370 | Peugeot 6460p2 | 5 pieces |
| 007950024380 | Peugeot 6460p1 | 5 pieces |
| 007950024390 | Renault 1-7701207274 | 5 pieces |
| 007950024400 | Renault 2-7701207274 | 5 pieces |
| 007950024410 | Renault 3-7701207274 | 5 pieces |

# COOLWEATHER PRODUCTS

## COMPLETE VALVES TABLE

| COOL WEATHER | VALVES TABLE | |
|---|---|---|
| | CODE | DESCRIPTION |
| | 007950024190 | Pin valve |
| | 007950024440 | High pressure pin valve |
| | 007950024430 | High pressure pin valve 8 mm |
| | 007950024460 | GM valve |
| | 007950024470 | Standard valve 8 mm |
| | 007950024480 | Standard valve 10 mm |



## COMPLETE CAPS TABLE

| COOL WEATHER | CAPS TABLE | | |
|---|---|---|---|
| | CODE | DESCRIPTION | PACKAGING |
| | 007950024240 | Valve cap R134a LP | 2 pieces |
| | 007950024250 | Valve cap R134a HP | 2 pieces |

COOL WEATHER

# COOLWEATHER PRODUCTS

## NEW PRODUCTS

| ACCESSORIES | CODE |
|---|---|
| System washing machine | 007950024620 |
| Oil pao 68 250 ml | 007950024630 |
| Oil pao 68 1 lt | 007950024640 |
| Oil pao 68 5 lt | 007950024650 |
| Oil pao 68 valve on bag 200 ml | 007950024660 |
| Tracer valve on bag 200 ml | 007950024670 |
| Oil for hybrid compressors | 007950024680 |
| Leak-detector bubble spray 400 ml | 007950024690 |
| UV lamp 100 W in black case | 007950024700 |
| 2-way manometric group r134a with 2.5-m tube and quick coupling, packaged in a black case | 007950024710 |
| Red tube 4000 mm f 1/4" x f 1/4" 180d | 007950024720 |
| Blue tube 4000 mm f 1/4" x f 1/4" 180d | 007950024730 |
| Set of connectors for washing machines | 007950024740 |
| Washing kit | 007950024750 |
| FORD Springlock release kit 4 pieces | 007950024760 |
| OPEL Springlock release kit 4 pieces | 007950024770 |
| Diagnosis and filtering kit | 007950024780 |
| Adapter for valve on bag | 007950024790 |
| FORD low pressure quick coupling m 10 x 1,25 | 007950024800 |
| Set consisting of low pressure adapter 1/4" x 13 mm + tank connection 1/4 SAE | 007950024810 |
| O-ring removal kit | 007950024820 |
| Wide pin valve | 007950024830 |
| Low pressure adapter 1/4" x 13 mm | 007950024840 |
| Oil PAO 68 1 l with tracer | 007950024850 |
| Oil PAO 68 0.5 l with tracer | 007950024860 |
| Kit with 2 disinfecting sprays | 007950024870 |

# Gas and smoke analysis

MAGNETI MARELLI

# SMART GAS

007935900010

## DESCRIPTION

Instrument equipped with display for the analysis of exhaust gases of petrol, LPG and CNG systems.

- Gas analyzer for vehicles running on petrol, LPG and CNG. • CO reading: 0 to 10% vol. Resolution 0.01% vol.
- CO2 reading: 0 to 20%. Resolution 0.01% vol.
- HC reading: 0 to 10,000 ppm. Resolution 1ppm
- O2 reading: 0 to 21% vol. Resolution 0.01% vol.
- Warm-up time: about 3 minutes.
- Built-in thermal 24-column printer for report printing.
- Multifunctional keyboard for entering test data and test execution.
- 4x20 9-mm LCD backlit with white LEDs for high brightness.
- Built-in battery with 4 hours of autonomous operation and recharging directly from the mains
- Power supply: 220V-50 Hz mains, or 12 V battery (optional)

## CONNECTIONS:

- Input: mains, tachometer, coolant temperature probe
- Serial port for cable communication to PC
- PS2 port for PC keyboard
- Internal Bluetooth Class 1.

Standard ACCESSORIESes:

- Mains connection cable
- Oxygen sensor
- Smoke sampling probe
- CD-Rom with software to be installed on PC for instrument use
- Short manual to be used as a guide to installation and first use.
- Cable for serial connection to PC

## FUNCTIONS:

- Analysis of 4 main gases (CO, CO2, HC, O2), with lambda factor calculation.
- Execution of “Blue Sticker” test.
- Execution of vehicle overhaul test

# SMART SMOKE

0079359000300

## DESCRIPTION

Instrument used to measure the opacity of spontaneous ignition systems.

- Opacity meter for spontaneous ignition vehicles.
- Absorption coefficient K reading (m-1): 0 to 9.99.
- Resolution 0.01
- Absorption coefficient K reading: 0 to 99.9%.
- Resolution 0.1%
- Smoke Temperature reading: 0 to 200 ° C. Resolution 1° C
- Warm-up time: about 3 minutes.
- Smoke analysis chamber temperature: 75° C.
- Built-in thermal 24-column printer for report printing.
- Multifunctional keyboard for entering test data and for test execution.
- 4x20 9-mm LCD backlit with white LEDs for high brightness.
- Built-in battery with 4 hours of autonomous operation and recharging directly from the mains.
- Power supply: 220V-50 Hz mains, or 12 V battery (optional)

## CONNECTIONS:

- Input: mains, tachometer, coolant temperature probe, 12V power supply
- Serial port for cable communication to PC
- PS2 port for PC keyboard
- Internal Bluetooth Class 1.

Standard ACCESSORIESes:

- Mains connection cable
- Smoke sampling probe
- CD-Rom with software to be installed on PC for instrument use.
- Short manual to be used as a guide to installation and first use.
- Cable for serial connection to PC

## FUNCTIONS:

- Analysis of opacity (both in % and in m-1), with acceleration trigger on engine speed, smokiness and smoke temperature.
- Execution of “Blue Sticker“ test.
- Execution of vehicle overhaul test

# LOGIC GAS

007935900020

## DESCRIPTION

Instrument used to analyze exhaust gases on petrol, LPG and CNG systems for connection to PC.

- Gas analyzer for vehicles running on petrol, LPG and CNG.
- CO reading: 0 to 10% vol. Resolution 0.01% vol
- CO2 reading: 0 to 20%. Resolution 0.01% vol
- HC reading: 0 to 10.000ppm. 1ppm resolution
- O2 reading: 0 to 21% vol. Resolution 0.01% vol
- Warm-up time: about 3 minutes.
- Built-in battery with 4 hours of autonomous operation and recharging charging directly from the mains.
- Power supply: 220V-50Hz mains, or 12 V battery (optional)

## CONNECTIONS:

- Input: mains, tachometer, coolant temperature probe
- Serial port for cable communication to PC
- PS2 port for PC keyboard
- Internal Bluetooth Class 1.
- Dimensions: 230x340x225
- Weight: about 10 kg (including battery)

Standard ACCESSORIESes:

- Mains connection cable
- Oxygen sensor
- Smoke sampling probe
- CD-Rom with software to be installed on PC for instrument use
- Short manual to be used as a guide to installation and first use.
- Cable for serial connection to PC

## FUNCTIONS:

- Analysis of 4 main gases (CO, CO2, HC, O2), with lambda factor calculation.
- Execution of “Blue Sticker” test.
- Execution of vehicle overhaul test.

# LOGIC SMOKE

**007935900040**

## DESCRIPTION

Instrument used to measure the opacity of spontaneous ignition systems for connection to PC.

- Opacity meter for diesel vehicles.
- Absorption coefficient K (m-1) reading: 0 to 9.99. Resolution 0.01
- Absorption coefficient K (%) reading: 0 to 99.9%. Resolution 0.1%
- Smoke temperature reading: 0 to 200° C Resolution 1° C
- Warm-up time: about 3 minutes.
- Smoke analysis chamber temperature: 75° C.
- Built-in battery with 4 hours of autonomous operation and recharging directly from the mains.
- Power supply: 220V-50Hz mains, or 12 V battery (optional)

## CONNECTIONS:

- Input: mains, tachometer, coolant temperature sensor
- Serial port for cable communication to OC
- Input for 12V power supply
- PS2 port for PC keyboard
- Internal Bluetooth Class 1.

Standard ACCESSORIESes:

- Mains connection cable
- Smoke sampling probe
- CD-Rom with software to be installed on PC for instrument use.
- Short manual to be used as a guide to installation and first use.
- Cable for serial connection to PC

## FUNCTIONS:

- Analysis of opacity (in both % and in m-1), with acceleration trigger on engine speed, smokiness and smoke temperature.
- Execution of “Blue Sticker” test.
- Execution of vehicle overhaul test

# ACCESSORIES GAS AND SMOKE ANALYSIS

| ACCESSORIES | CODE |
|---|---|
| Trolley for smoke and gas analysis | 00793591195 |

# RPM - SMART

007935900320

## DESCRIPTION

Multi-function instrument for detection of engine speed and temperature as scantool, can be used together with various analysis tools to carry out "ministerial tests."

- Frame: ergonomic in ABS with parts in anti-skid shockproof waterproof rubber parts according to standard IP54.
- Weight: 260 grams
- Dimensions: 90 mm x 160 mm x 39 mm
- Operating temperature: - 40° to + 85° C
- Battery: Lithium 7.4 V 1300 mAh, 8 hours of operation with no connection to vehicle
- Current consumption: 150 mA at 8 V
- Microcontroller: ARM 512KB internal flash
- Display: Graph transflective 64x128 pixels for excellent visibility even under poor lighting conditions
- Keypad: simplified membrane with 6 function keys + off key
- Communication: Wireless Bluetooth Class 1
- Detectable protocols: ISO 9141-2, ISO14230-4, SAE J1850-41.6, SAE J1850-10.4, CAN ISO 11898.
- Reprogramming: through USB connection to PC
- ACCESSORIESes: Cable for PT1000 temperature probes and piezoelectric sensor and induction and cable for battery connection

The product is suited for several applications, mainly based on OBDII protocol.
Specifically:
Engine rpm and temperature sampling through EOBD protocol and making this data available for emission tests
Vehicle analysis through EOBD protocol
Execution of "scan tool" test according to regulations.
At present, it is the only type-approved instrument in Italy for this purpose.

| ACCESSORIES | CODE |
|---|---|
| Cable for rpm detection according to the battery principle.<br>It includes: EOBD connector - cigarette lighter - pre-setting for oil temperature probe | 007935900330 |
| Induction rpm | 007935900350 |

| ACCESSORIES | CODE |
|---|---|
| Electric piezo rpm<br>Cable for rpm detection according to the principle of induction and of piezoelectric.<br>It includes: induction clamp, vibration tweezers, oil temperature probe | 007935900340 |
| Oil temperature accessory | 007935900360 |
| Smoke probe for trucks | 007935900370 |

# Other instruments

# OZONE MAKER

430104018045

## DESCRIPTION

Decontamination system, used to purify air and eliminate odours from passenger compartments of cars, trucks and RVs.
Magneti Marelli Ozone Maker is a revolutionary
decontamination system for vehicle passenger compartments.
It takes advantage of all ozone characteristics to completely disinfect the passenger compartment.

Magneti Marelli Ozone Maker is controlled by a computer through which you can program the operating time.
In fact, disinfection times are not standard, but instead depend on the amount of odours (caused not only by smog, but also by stagnating rain, cigarette smoke, animal smells, etc.) in the passenger compartment.

Each disinfection cycle will be specific to the vehicle to being treated.
Magneti Marelli Ozone Maker has a very user-friendly control interface. The keys represent the instrument work minutes; for a 30-minute treatment, simply press “30”. The LED next to the key lights up and stay lit until the end of the disinfecting operation.

Magneti Marelli Ozone Maker is equipped with an ozone production system through effluvium, also called “Corona Effect”, for the microbiological decontamination of rooms and surfaces without no chemical residue as ozone is an unstable gas that spontaneously changes back into oxygen.

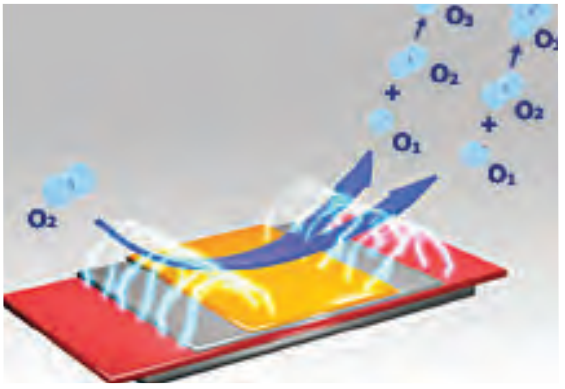
Dimensions: 320 x 220 x 95 mm
Power supply: 230V - 50Hz - 18W
Compressor flow rate: 3 l/min
Ozone production: 0.250 g/h

## HOW TO USE

Position the instrument horizontally, outside the car, next to the door on the driver's or passenger's side, and plug it into a 220V outlet.

Set the air circuit in a continuous recycle position, with the diffusion fan on minimum to decontaminate the entire circuit.

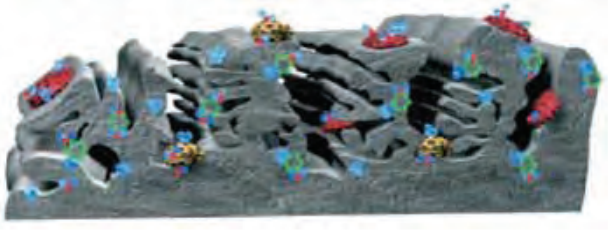
If possible, it is recommended to place the pollen filter (even if it is new) inside the passenger compartment during the treatment.

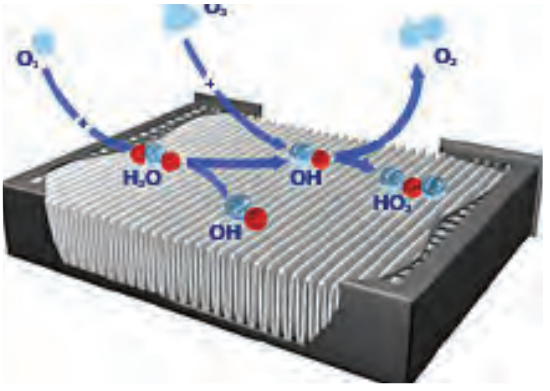



Position the tube with the diffuser stone on the rear-view mirror passing the connection tube through the window. Roll up the window being careful not to crush the tube, and run the Ozone Maker for 30 minutes (then air out the passenger compartment for 10-15 minutes).

Check if the air conditioning system still gives off a foul smell. If it does not, the treatment is over.

Otherwise, position the porous stone diffuser on the external air intake and set the air circuit on normal position with the diffusion fan on minimum speed, then run
Ozone Maker for 15 minutes (afterwards, air out the passenger compartment for 10-15 minutes).





# TPMS CONNECT

007935900380

## DESCRIPTION

Instrument used to identify and test the pressure in the tyres.

## FUNCTIONS

- Make sure the electronic valves are working prior to starting any operation on the tyres (vehicle acceptance phase - vehicle test function).
- Read the sensor ID CODE without removing the tyre (useful for reprogramming CODEs on the vehicle).
- Guarantee system operation to the customer during the vehicle delivery phase (with relevant certificate).
- Check why the "tyre pressure" (TPMS) pilot light comes on.
- Measure the pressure and temperature of the wireless tyre (without unscrewing the valve cap and connecting the pressure gauge)
- Help the operator in its duties by providing useful information in order to repair/avoid damaging the system (torque, part number).
- Turn on the sensor data transmission (for example during a programming procedure) without inflating the tyre to a pressure above 3 bar.
- Vehicle test, sensor test, tightening torque, spare part number.

VEHICLE ACCEPTANCE:
Allows you to verify, with the customer, proper system operation upon vehicle acceptance PRIOR TO working on the tyres.

VEHICLE PROCESSING:
Allows you to verify tightening torques, proper tyre inflation pressure, and sensor spare part numbers while working on the vehicle.

VEHICLE DELIVERY:
Verifying the status of sensors AFTER having worked on vehicle tyres prevents complaints concerning the jobs carried out.
For a professional service, the customer can be given a printout of the reports through PC interface.

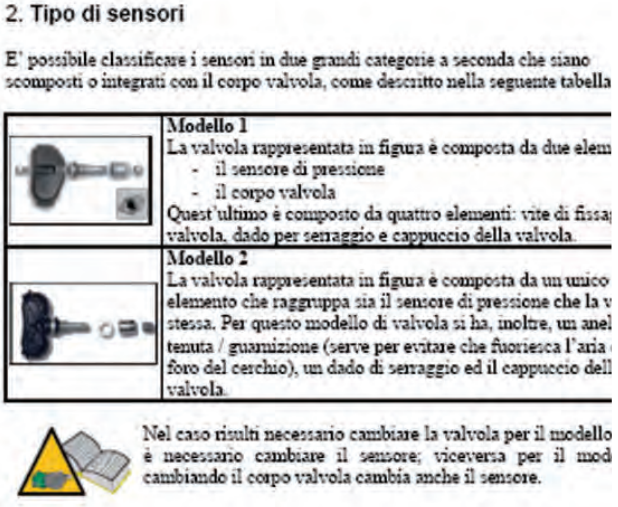
Automobile brands:
- Acura, Alfa, Audi, Bentey, BMW, Bugatti, Cadilac, Chevrolet, Chrysler, Citroen, Dodge, Ferrari, Fiat, Ford, Honda, Hyundai, Hummer, Infiniti, Jeep, Kia, Lancia, Land Rover, Lexus, Maserati, Mercedes-Benz, Mercury, Mini, Mitsubischi, Nissan, Opel, Peugeot, Porsche, Renault, Saab Skoda, Toyota, Volkswagen, Volvo.

Truck brands :
- Renault, Man, Mercedes-Benz

Bike brands:
- BMW-Motorrad

You can connect the instrument the PC and, through the supplied software, you can:
- print test results
- store tests on the PC
- view procedures for the acquisition of new sensors from the instrument panel.
- update the instrument

Dimensions (approx): 190x120x50.
Backlit LCD display 4x16 characters.
Keyboard with 5 keys (UP, DOWN, ENTER, ESC) + ON / OFF
Power supply: 6 batteries
Auto Power Off


2. Tipo di sensori

E' possibile classificare i sensori in due grandi categorie a seconda che siano scomposti o integrati con il corpo valvola, come descritto nella seguente tabella

Modello 1
La valvola rappresentata in figura è composta da due elem
- il sensore di pressione
- il corpo valvola

Quest'ultimo è composto da quattro elementi: vite di fissa valvola, dado per serraggio e cappuccio della valvola.

Modello 2
La valvola rappresentata in figura è composta da un unico elemento che raggruppa sia il sensore di pressione che la v stessa. Per questo modello di valvola si ha, inoltre, un anel tenuta / guarnizione (serve per evitare che fuoriesca l'aria foro del cerchio), un dado di serraggio ed il cappuccio dell valvola.

Nel caso risulti necessario cambiare la valvola per il modello è necessario cambiare il sensore; viceversa per il mod cambiando il corpo valvola cambia anche il sensore.

Enabling transmission valves LF.
Reception of data transmitted by the valves in RF (ASK, FSK)
on carrier frequencies 315 (USA), 433 and 868MHz (Europe).
How to use: through vehicle selection.

| ACCESSORIES | CODE |
|---|---|
| TPMS Connect update | 007935910245 |

# TPMS CONNECT EVO

007935900385

## DESCRIPTION

Instrument used to identify and enCODE the pressure sensors in the tyres.

- Make sure the electronic valves are working prior to starting any operation on the tyres (vehicle acceptance phase -vehicle test function).
- Read the sensor ID CODE without removing the tyre (useful for reprogramming CODEs on the vehicle).
- Guarantee system operation to the customer during the vehicle delivery phase (with relevant certificate).
- Check why the "tyre pressure" (TPMS) pilot light comes on.
- Measure the pressure and temperature of the wireless tyre (without unscrewing the valve cap and connecting the pressure gauge).
- Help the operator in its duties by providing useful information in order to repair/avoid damaging the system (torque, part number).
- Turn on the sensor data transmission (for example during a programming procedure) without inflating the tyre to a pressure above 3 bar.
  Vehicle test sensor test tightening torques spare part CODE.

VEHICLE ACCEPTANCE: Allows you to verify, with the customer, proper system operation upon vehicle acceptance PRIOR TO working on the tyres.

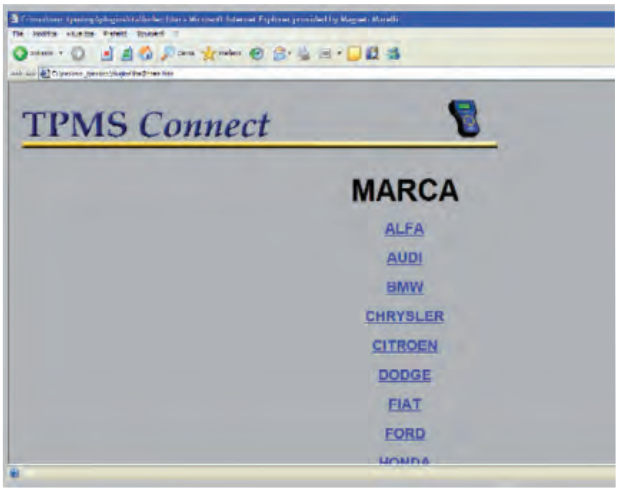
VEHICLE PROCESSING: Allows you to verify tightening torques, proper tyre inflation pressure, and sensor spare part numbers while working on the vehicle.

VEHICLE DELIVERY: Verifying the status of sensors AFTER having worked on vehicle tyres prevents complaints concerning the jobs carried out. For a professional service, the customer can be given a printout of the reports through PC interface.

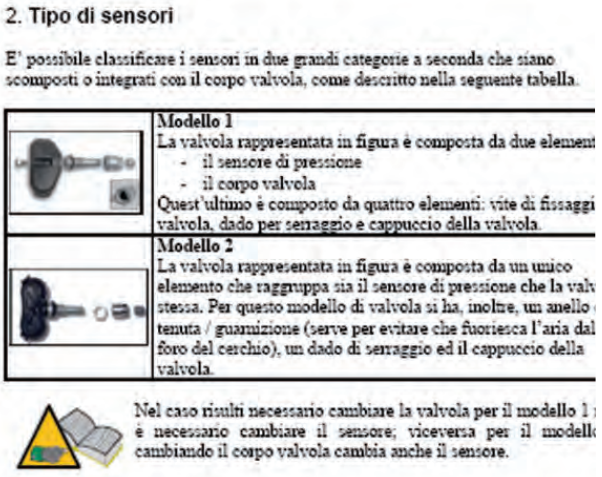
Automobile brands:
- Marchi Auto: Acura, Alfa, Audi, Bentey, BMW, Bugatti, Cadilac, Chevrolet, Chrysler, Citroen, Dodge, Ferrari, Fiat, Ford, Honda, Hyundai, Hummer, Infiniti, Jeep, Kia, Lancia, Land Rover, Lexus, Maserati, Mercedes-Benz, Mercury, Mini, Mitsubischi, Nissan, Opel, Peugeot, Porsche, Renault, Saab Skoda, Toyota, Volkswagen, Volvo.

Truck brands
- Renault, Man, Mercedes-Benz

Bike brands:
- BMW-Motorrad




You can connect the instrument the PC and, through the supplied software, you can:
- print test results
- store tests on PC
- view procedures for the acquisition of new sensors from the instrument panel.
- update the tool


2. Tipo di sensori

E' possibile classificare i sensori in due grandi categorie a seconda che siano scomposti o integrati con il corpo valvola, come descritto nella seguente tabella.

**Modello 1**
La valvola rappresentata in figura è composta da due element
- il sensore di pressione
- il corpo valvola

Quest'ultimo è composto da quattro elementi: vite di fissaggi valvola, dado per serraggio e cappuccio della valvola.

**Modello 2**
La valvola rappresentata in figura è composta da un unico elemento che raggruppa sia il sensore di pressione che la valv stessa. Per questo modello di valvola si ha, inoltre, un anello tenuta / guarnizione (serve per evitare che fuoriesca l'aria dal foro del cerchio), un dado di serraggio ed il cappuccio della valvola.

Nel caso risulti necessario cambiare la valvola per il modello 1 è necessario cambiare il sensore; viceversa per il modell cambiando il corpo valvola cambia anche il sensore.

Dimensions (approx): 190x120x50.
Backlit LCD display 4x16 characters.
Keyboard with 5 keys (UP, DOWN, ENTER, ESC) + ON / OFF
Power supply: 6 batteries
Auto Power Off
Enabling transmission valves LF.
Reception of data transmitted by the valves in RF (ASK, FSK)
on carrier frequencies 315 (USA), 433 and 868MHz (Europe).
How to use: through vehicle selection.

| ACCESSORIES | CODE |
|---|---|
| TPMS Connect update | 007935910245 |
| TPMS OBD diagnostic kit | 007935900395 |

# DIAGRAM 500

007940109205

## DESCRIPTION

Measurement module for connection to PC with 4-channel oscilloscope functions; measurements: voltage, resistance, current, pressure, temperature and engines belt tension check.

Diagram 500 can turn a regular PC into a function oscilloscope, simply by connecting to the USB port or via Bluetooth/RS232 (optional), with features that make it a laboratory product for professional use.
The hardware module is protected by a special rubber shell specifically designed for workshop use.

The possibility to acquire one or two tracks (with SW selection), sampling of 500 KS/s, and a measurable maximum amplitude of + / - 100V allows you to measure the values of components installed on latest-generation automotive systems.

The easy-to-use PC software allows even inexperienced users to carry out an advanced diagnosis of vehicle signals.

| ACCESSORIES | CODE |
|---|---|
| Bluetooth transmitter receiver | 007940109210 |
| Amperometric pliers 10 A | 007940109230 |
| PRESSURE KIT 30 BAR | 007940109240 |
| RS232 connection 200°C temperature probe kit | 007940109250 |
| Belt tightener kit | 007940109260 |
| 4-channel expansion kit | 007940109270 |
| 3-m battery power supply table | 007940109280 |
| 1.5-m cigarette lighter power supply cable | 007940109290 |
| Mains power supply | 007940109310 |
| Signal pickup probes kit | 007940109320 |

# BATTERY TESTER

007950006900

## DESCRIPTION

Hand-held instrument used to check the battery charge and start status, equipped with printer.
Battery Tester is an exclusive Magneti Marelli device, developed to meet the repairing needs on the diagnosis and maintenance of starter batteries.
Special attention was paid to instrument performances and easy use.

- Suitable for testing 6 V and 12 V batteries;
- Suitable for testing recharging systems from 12 V to 24 V;
- Range of operating temperatures: from 0° C to 50 ° C;
- Protection against reverse polarity of the wires;
- Testing of all of the following types of batteries (VRLA /
- GEL / AGM / SLA / SLI);
- Test lasts approximately 10 seconds (varies
- depending on the seriousness of battery conditions);
- Backlit display;
- Battery diagnosis printout;
- Available in 10 languages: English, French, Spanish, German, Italian, Portuguese, Japanese, Chinese, Norwegian and Polish; soon available in Turkish;
- Minimally invasive (minimal disturbance) in order to test inter-cell micro-interruptions not detectable with passive measurement methods (i.e. internal resistance measurements);
- Repeatability of the response (repeated tests on the same battery provide almost identical values);
- Automatic adjustment of analysis criterion and time
- even for batteries that have been recently recharged;
- Discrimination between “efficient”, “good”, “recharge”,” recharge and retest”, “ defective, replace”, “cell in short-circuit “ batteries;
- The test does not alter the battery charging status (centesimal change in voltage).

# LPG/CNG CHECK

007935911990

## DESCRIPTION

Professional hand-held instrument used to detect leaks from CNG / LPG systems.
Measuring range:
CNG exceeding 40 ppm, LPG exceeding 60 ppm
White LED lighting
Sensitivity: 35 ppm
Warm-up time: from 30 seconds to 2.5 minutes
Response time: <10 seconds
Visual indicator with 6-LED scale:

- >40 ppm CNG >60ppm LPG
- >80 ppm CNG >120ppm LPG
- >160 ppm CNG >240ppm LPG
- >320 ppm CNG >480ppm LPG
- >640 ppm CNG >960ppm LPG
- >1280 ppm CNG >1920ppm LPG

Acoustic signal and vibration with frequency modulation according to the value of the measured gas
Power supply: internal rechargeable Li-Ion battery
Battery charger: 110/220 V - 50/60 Hz (full charge in about 3 hours)
Automatic shut-off.

## FEATURES

- Indications of READY LED
- The READY LED indicates the Detector status by changing colour and frequency.
- Indications of BATT LED.
- The BATT LED indicates the internal battery status by changing colour and frequency.
- Indications of measuring LEDs
- They indicate, with green light that turns on sequentially and gradually, the gas level measured by the electronic sensor located at the end of the metal arm. Measurement value with a 6-LED scale.
- Buzzer functions
- The acoustic signal makes a sound with modulated frequency according to the measurement value.
- Internal vibrator function
- The vibration is activated with modulated frequency according to the measurement value.
- Illumination lamp. A white LED light is built into the sensor to light up the area where the measurement is being taken

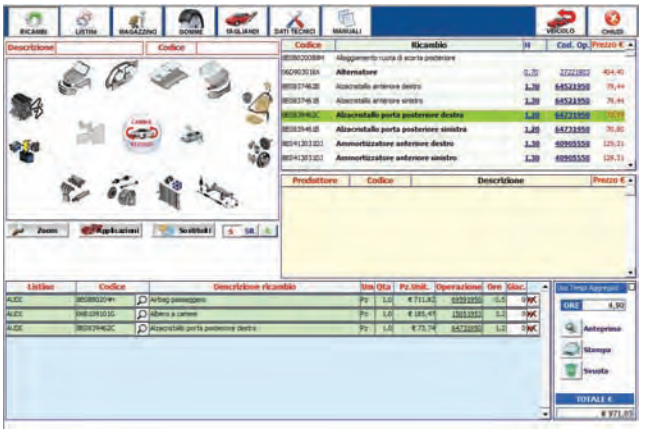
# Garage software and technical databank

MAGNETI MARELLI

# TECA - WORKSHOP SOFTWARE MANAGEMENT

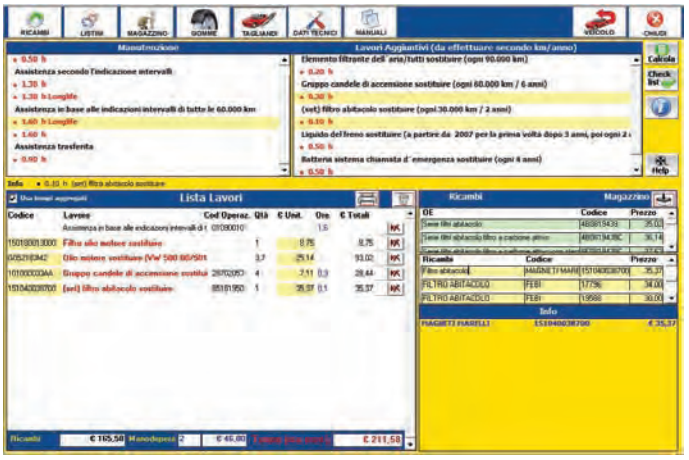
## TECa

### DESCRIPTION



TECa is an information system that allows you to follow the vehicle from the time it enters the workshop up to its delivery to the customer. Vehicle entrance sheet, acceptance, rapid estimates with repair times, search for original and alternative spare parts and communications are only some of the operations that can be carried out with the programme.
Workshop operations are thus simplified, improving efficiency and customer service levels.

TECa is a management software dedicated to the multi-brand and multi-specialized workshop that offers:

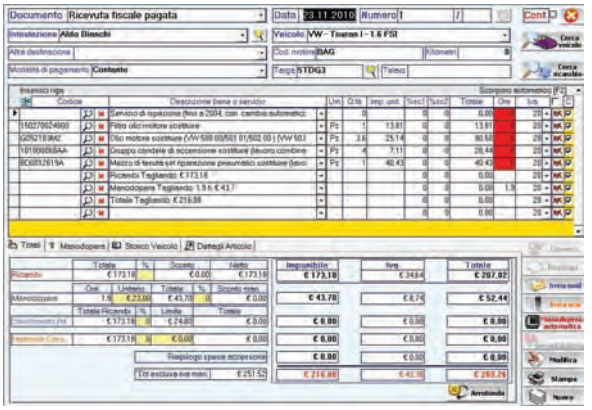


- dynamic estimates (4 databases);
- carmakers' repair labour times;
- carmakers' and part manufacturers' price lists;
- original and alternative parts database;
- customers/suppliers data management;
- management of deadlines (blue label, review, maintenance, gas installations);
- archive of repairs carried out;
- communication with customers;
- other functions (warehouse management, basic accounting , etc.).

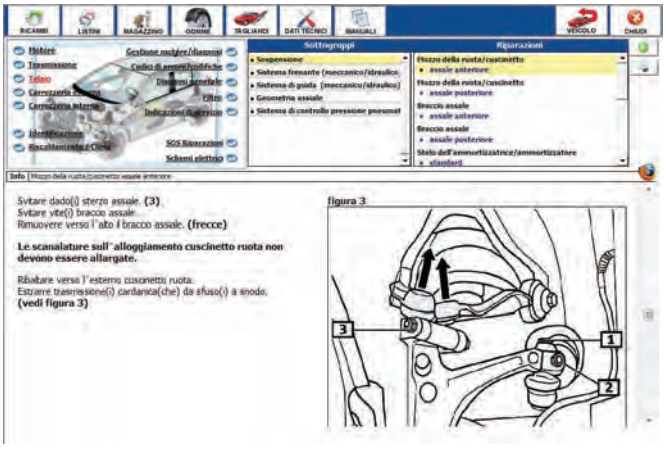
**Issuing of documents**
Whatever the type of document to be issued:
receipt, invoice, entrance sheet, estimate, etc., the screen that appears on the monitor is basically the same, subdivided into three areas:
customer and vehicle data at the top, spare parts used in the middle and financial data at the bottom.

**Parts Search**
Once you select the vehicle brand, model and version , you can use the dynamic databases:
Times and Prices - times and original spare parts prices with relevant correlations with aftermarket spare parts;
Fast Moving - database that allows you to find items that are frequently handled;
Lists - by selecting the carmaker's or producer's price list, you can look for an article by CODE or by description;
Tyres – by entering the tyre CODE or size, the price and inflation pressures will be displayed;
Stock - you can search for items if they were entered in your stock.

**Booking appointments**
A diary with daily times used to plan workshop activities also by classifying appointments by type; on the right, you can highlight the vehicles to be delivered to the customers.



- it is equipped with a practical and dynamic system used to search for issued and/or received documents;
- it makes stock browsing easier and faster;
- it can be customized with the addition of the workshop logo to all issued documents;
- it allows you to text messages (SMS) to customers;
- it contains over 450 carmaker and parts manufacturer price lists
  14,000,000 original and alternative spare parts numbers
  700,000 cross references, more than 50,000 after market photos /images and 30,000 items in the tyres price list;
- it suggests spare parts list by product group (i.e., engine distribution , auxiliary distribution, braking system, etc.) for more than 20,000 applications;
- it is constantly updated (6 times in 12 months);
- it allows you to convert any document into another (i.i. from shipping document to receipt);
- it also allows you to update spare parts price lists through the Internet.






**Part number quick search**
By typing the part number in the search field, the system displays the component description, price lists and possible matches with alternative product and parts manufacturer.
You can also display a photograph and list of vehicles that fit that particular item.
Online updating of price lists
With this function, you can update the spare parts price lists via the Internet.
The price lists for which an update is available are highlighted in red.

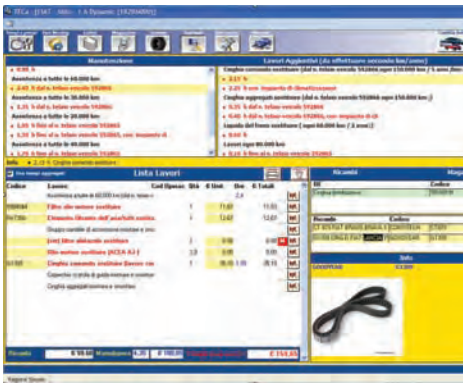
**Warehouse management**
You can manage your stock by entering items through purchase documents or by entering the item data; the warehouse allows you to subdivide items by group, sub-group or list. You can also display changes in individual items (purchase/sale documents), print the inventory, print the confidential or official price list, and , issue orders to suppliers for parts in stock and update selling prices with those of the official list.

| ACCESSORIES | CODE |
|---|---|
| SW user license 1st PC station | 099992680000 |
| 12-month fee 1st PC station | 099992680100 |
| SW user license 2nd PC station | 099992680020 |
| 12-month fee 2nd PC station | 099992680200 |

# TECA - WORKSHOP SOFTWARE MANAGEMENT

## 1ST YEAR COUPONS MODULE 099992680050

### DESCRIPTION



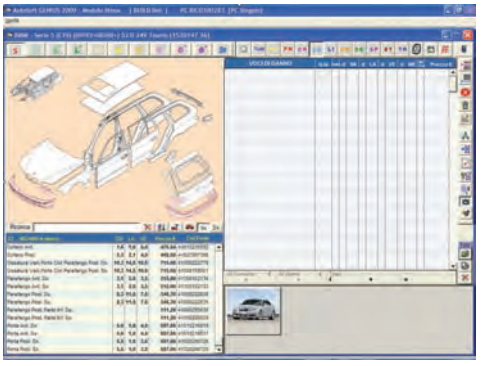
Coupons are present in the module technical information useful in addressing these issues in the car, pictures of components, wiring diagrams, torque and much more.
The Coupons module is subdivided into three menus: Coupons, Technical Data and Manuals
Contents of the Coupons module:

- 50,000 technical data sheets;
- 30,000 repair sheets;
- Manufacturer 's operation CODEs;
- Data sheets for service reset, distribution;
- 20,000 electrical diagrams.

| ACCESSORIES | CODE |
|---|---|
| 2nd year coupons module | 099992680500 |

## BODY SHOP MODULE LICENSE 099992680040

### DESCRIPTION



A specific module for body repairers, with active graphics (exploded view of original cars) intersects with the vehicles database
integrate content and retaining the benefits.
The database contains:

- 12,000 vehicles;
- 3,000,000 alternative part numbers;
- Cross-section of spare parts;
- Aggregates management;
- Calculation of partial damages;
- Repair labour times;
- Spare parts photographs;
- Electronic sending of paperwork;
- 250 price lists.

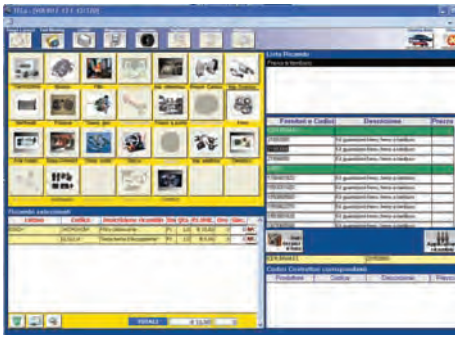
| ACCESSORIES | CODE |
|---|---|
| 12-month fee body module | 099992680400 |

## TRUCKS MODULE LICENSE 099992680030

### DESCRIPTION

Maintaining simple use and graphic interface of the automobile database, the Truck section offers a wide range of spare parts for industrial vehicles.
The database contains:

- approximately 6,000 vehicles;
- 4,000,000 original and alternative part numbers;
- 1,000,000 alternative part numbers;
- 230 price lists.



| ACCESSORIES | CODE |
|---|---|
| 12-month fee Truck module | 099992680300 |

# e-Assist – CUSTOMER SOFTWARE MANAGEMENT

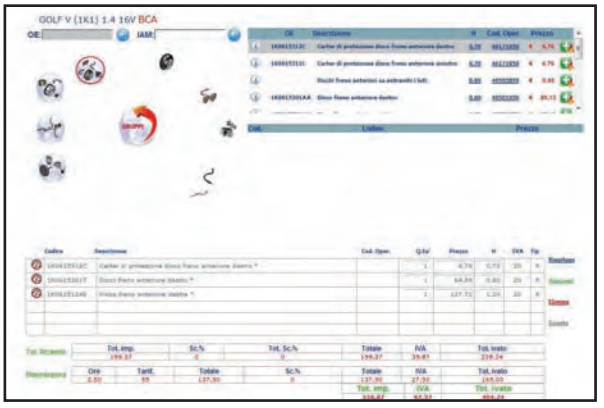
## e-ASSIST

009999269400

### DESCRIPTION

Advanced estimation software yet easy to consult, with centralized databases (vehicles, times, prices, original and after market spare parts), accessible via the Internet. on dedicated server and line for high performances. Customer lists and estimates.
Just a few screens to develop a surprising application in terms of easy use, fast server response and for the surprising ease of use, speed of response of the server and huge quantity of data, with over 13 million spare parts, constantly updated.

e-Assist includes the Coupons and Repair Manuals database, covering approximately 80% of vehicles from 1998 onwards.



e-Assist is an innovative online program that provides quick and easy access to remote databases, on dedicated servers and lines, allowing the creation of estimates, the consultation of more than 450 carmaker and component manufacturer prices lists in incredibly fast times.
Since the system is completely online, all contents are always up-to-date.
e-Assist is the ideal online application for the car repairman who wants a powerful product (with over 14 million spare parts), yet easy to use and understand that requires no maintenance.

**Estimates**
Just a small number of buttons, for easy use, in order to issue estimates and acceptance using the databases.

### SUPPLIED DATA

e-Assist includes a rich set of technical assistance data: the Coupons and Repair manuals databases provide detailed information about scheduled maintenance tasks in order to service vehicles as indicated by carmakers, as well as technical information on components and on main vehicle defects.

1. In the Service section, users can find the operations to carry out in order to service vehicles according to time/distance travelled;

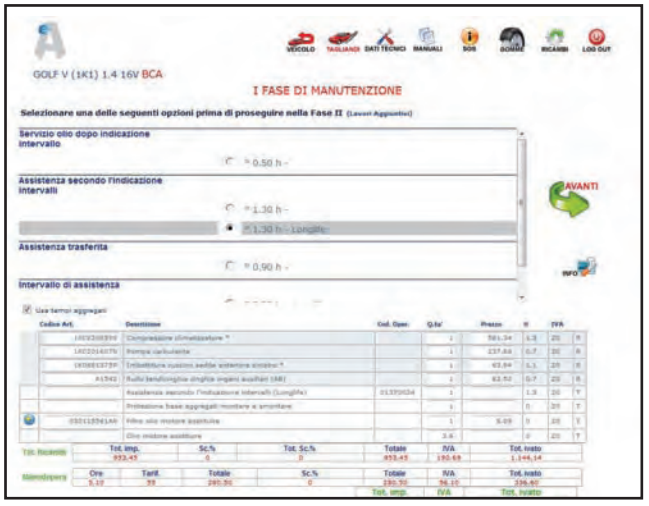
2. Repair instructions provide useful information for testing and verifying the proper operation of devices fitted on vehicles;

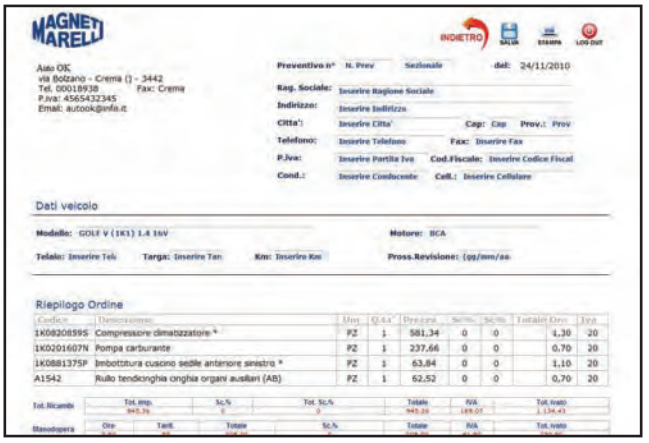
3. In the Technical Data section, you can find:
- Electrical systems
- Replacement Intervals

- Tightening torques
- Chassis data
- Fuel System
- Belt information
- and much more ...

## MINIMUM REQUIREMENTS

Fast Internet line (ADSL), VGA colour monitor (1024X768 pixels)


GOLF V (1K1) 1.4 16V BCA
I FASE DI MANUTENZIONE
Selezionare una delle seguenti opzioni prima di proseguire nella Fase II
Servizio olio dopo indicazione intervallo
Assistenza secondo l'indicazione intervalli
Assistenza trasferita
Intervallo di assistenza
AVANTI




| ACCESSORIES | CODE |
|---|---|
| E-Assist renewal | 009999269410 |

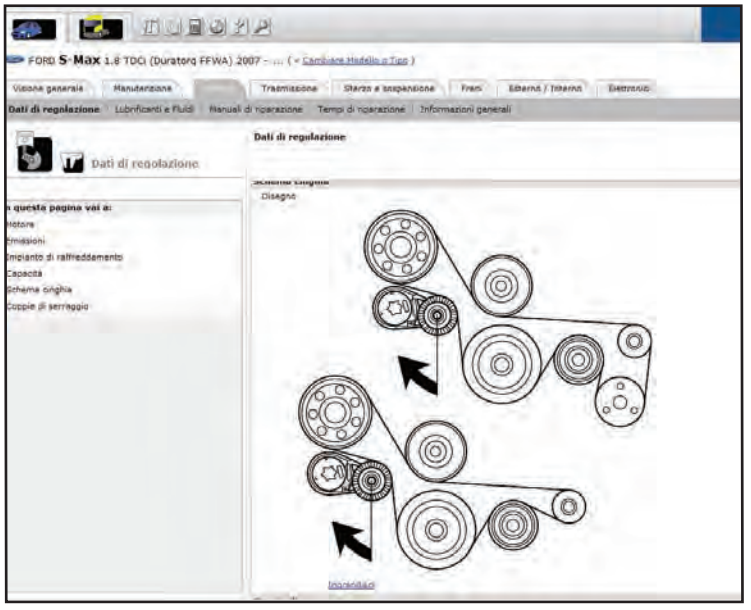
# ReTIS – TECHNICAL ON LINE DATA BANK

## ReTIS

009999269400

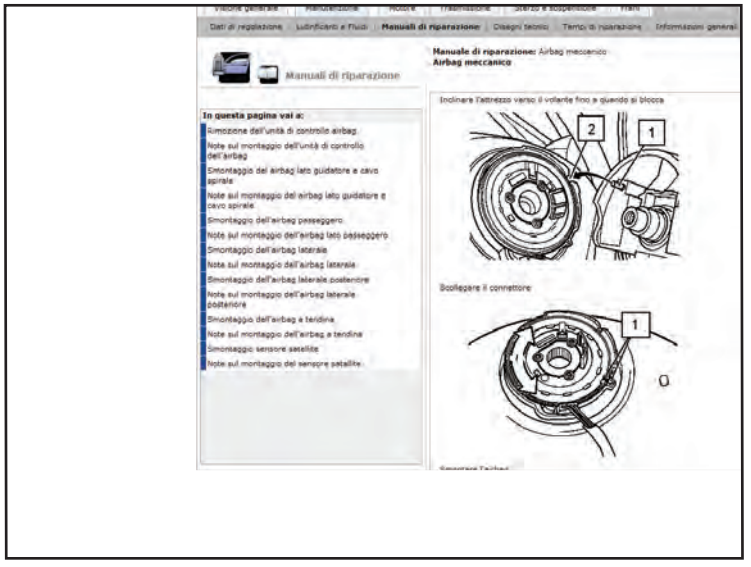
### DESCRIPTION

For better car repair management, for some time paper documents are no longer sufficient.
This is why Magneti Marelli offers ReTIS, an effective and quick reference tool for technical/repair information concerning automobiles in circulation that is now considerably updated in terms of content, with renewed graphics and methods of use. The completeness and reliability of its data, acknowledged by ADICONSUM, also make it a crucial reference point for the execution of scheduled maintenance (coupons).




ReTIS is Magneti Marelli's technical database that allows vehicle repairers to consult and use immediately a large amount of vehicle-related. In fact, ReTIS contains:

- Vehicle identification
- Scheduled Maintenance (coupons)
- Adjustment data
- Lubricants and fluids
- Engine and tuning technical data
- Technical drawings
- Engine Management (including component location)
- ABS System
- Airbag System
- Fuses and relays
- Air-conditioning
- Electrical wiring diagrams
- Repair and maintenance times (coupons)
- Body (parts disassembly / reassembly)
- Comfort Systems (electrical diagrams and operation)
- Explanation of EOBD error CODEs




### ReTIS' NUMBERS:

7,000 engines
50,000 drawings
Almost 6,600 engine management systems
Thousands of electrical connection diagrams
Millions of specified repair times

The organization of documents and data, subdivided into logical areas, makes it simple and easy to find information broken down as follows:

- Maintenance
- Engine
- Transmission
- Steering and Suspension
- Brakes
- Outdoor / Indoor
- Electronics
- A quick "Index" reference guide offers on the other hand, in cross-sectional fashion, the document type of recurrent use in the different groups:
- Adjustment data
- Repair Manuals
- Lubricants and Fluids
- Technical Drawings
- Repair times

**Maintenance** List of operations required for carrying out coupon-related operations and carmakers' repair times.

**Engine> Repair Manuals**
Clear drawings with explanations and highlighting of operating points as well as the values necessary for proper or adjustment.



**Electronics> Engine Management**
WIRING DIAGRAM - Pin-out of electronic units and connection to system components: simply position the mouse over each description to display the device in the diagram. Click on the same description to display a specific page of the component.

**Adjustment Data**
Wide range of information on adjustments: from engine to tyres.
Example: convergence, camber, etc. Outside / Inside Information, drawings and directions for jobs on passenger compartment and vehicle body.

**Software license and updates**
Updates are provided on a quarterly basis
Windows ® 2000/XP / Vista, browser (i.e. Internet Explorer ®), fast Internet line (i.e. ADSL).

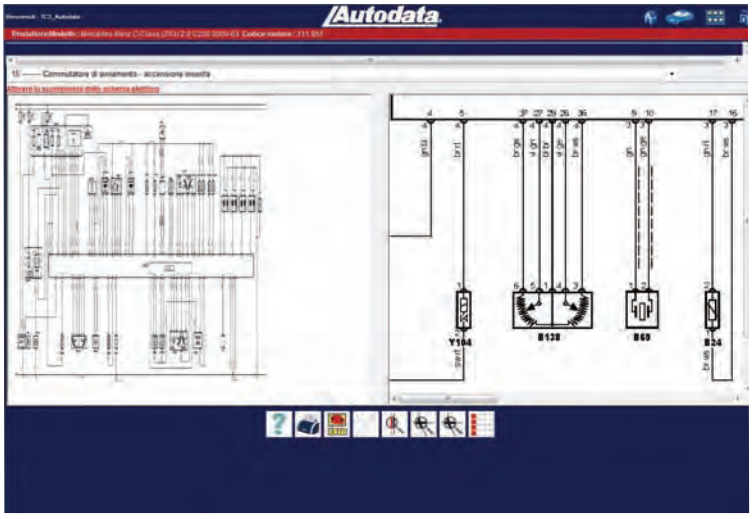
# AUTODATA -TECHNICAL ON LINE DATA BANK

## AUTODATA ONLINE 3

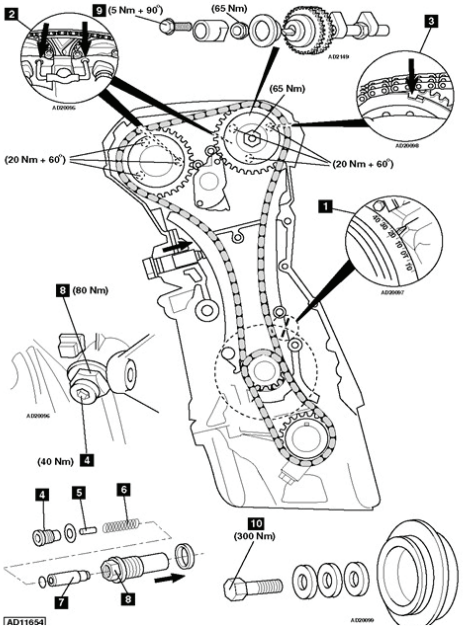
009999269500

### DESCRIPTION

AUTODATA is the most common technical database at the European level. Thanks to regular data purchase contracts stipulated with the carmakers, Autodata guarantees the car repairman the origin and reliability of the data contained in its products.




**Petrol and diesel engine technical data:** injection system, carburettor, tuning and exhaust gases, battery, checks and adjustments, lubricants and capacities, complete tightening torques, brake disc and drum dimensions. Air-conditioning (filter quantity and location). All with accurate illustrations and zoomable important notes.




**Timing belts**: replacement intervals, work times, special tools, step-by-step disassembly and assembly with detailed and zoomable illustrations. Online update function in real time in order to check for modifications required by carmakers.

**Distribution gears and chains:** special tools, general precautions, valve timing procedures with detailed and zoomable illustrations.

**Case studies of original carmaker fault-bulletins:** the most common breakdowns are indicted car-by-car with a step-by-step explanation of the repair procedure, zoomable illustrations, tools and spare parts to be used.

**Repair labour times and estimates drafting:** original base times used by network of authorized dealers. Quick drafting of estimates, print function and filing.

**Coupons and scheduled maintenance:** intervals, programs and maintenance time of the original manufacturers.

**Tags chassis and engine CODEs:** with a simple click shows the location of the plate and the engine CODE. A search engine allows you to identify the model by entering the CODE engine.

**Reprogramming keys:** operation, programming and battery replacement key / remote controls for closing and immobilization.

**Resetting maintenance indicator:** instructions and detailed drawings.

**Service illustrations:** anti-pollen filters, auxiliary belts, discharge and fill up points, lifting points.

**Wheel alignment:** tyre dimensions and pressure, tightening torques, all front and rear trim data in mm and degrees, optional rims and tyres.

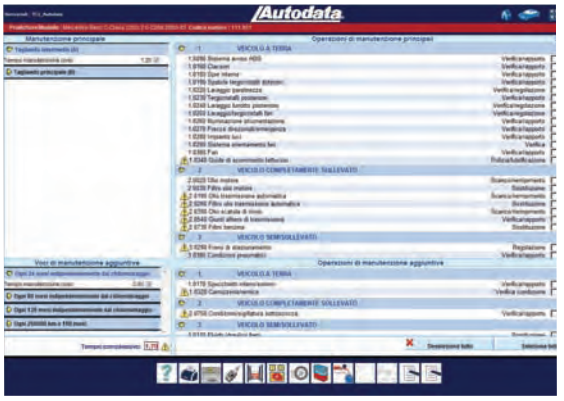
**Engine management - component test:** electronic fuel injection and ignition with wiring diagrams, component pinpointing and detailed instructions for diagnosis and repair using simple test equipment (multimeter, oscilloscope, etc.) already available in the workshop.

**Engine management-diagnostic values:** all values of the various ECU PINs, input and output, and relevant test conditions.

**Failure and OBD CODEs**: with quick search function and diagnostic outlet pinpointing.

**Troubleshooting**: logical sequence of checks to avoid wasting time.

**Engine management – electrical diagrams**: clear and easy to read, with interactive links to component testing and pinpointing.



**Component pinpointing:** a quick and easy way to pinpoint the desired component. Just a simple click to switch to the wiring diagram of the component selected.

**Air-conditioning:** system description, system pressure diagnosis, electrical diagram, pinpointing of engine compartment and dashboard components.

**ABS:** from general information to fault CODEs, to wheel speed sensors, pump motors etc. Test data is clearly illustrated with the electrical diagram and component pinpointing.

**Airbag:** system description, SRS pilot light, system on/off, steering wheel disassembly and assembly, fault CODEs, electrical diagram, etc.

**Additional wiring diagrams:** power distribution, injection preheating system for diesel engines, electric windows, central lock, external lights, suspension control, manual gearbox, starter system, windscreen washer/ wipers and headlamp washer / wipers, automatic transmission, electric rear-view mirrors, recharging system, in-vehicle lights, dashboard and instrument panel, automatic clutch, thermal windscreen/rear window, horn, audio / video system.
With location of mass points and connections to component testing.

**Diagnosis Wizard**: guide to diagnosis and problem resolution through a virtual tester. Depending on the problem to be solved, the system asks a series of questions and, based on the answers, it specifies the checks to be performed and the jobs to be carried out, automatically providing the relevant information (electrical diagrams, jobs, component pinpointing, etc.).

**Minimum system requirements:** Internet connection, Internet Explorer or Mozilla Firefox, minimum screen resolution 1024X768 pixels

# SERVICES

# MAGNETI MARELLI TECHNICAL SUPPORT HELP DESK 571729999014

The result of years of experience acquired by Magneti Marelli in the field of technical assistance provided to the network of independent automotive workshops, since 1998 Magneti Marelli Help Desk has assisting local operators in solving problems that arise on a daily basis.
Support is provided through the most enhanced VoIP telephone technology, which ensures extremely stable conversations and the capabilities of a system managed though computer technology.

By calling the Help Desk, the user contacts a team of dedicated technicians who are always up-to-date, thanks to Magneti Marelli's Internal Training.

Operators avail themselves of the best multi-brand technical database through which they obtain information necessary for the analysis of anomalies. Moreover, since it is in contact with most carmakers and due to its role as original equipment (OE) supplier, Magneti Marelli can get a hold of technical information that would otherwise not be available. In other words, the most important technical and technological news go through Magneti Marelli innovation, enabling the company to provide service that is always on the cutting edge. By solving non-recurrent anomalies, operators generate technical documents called "Assistance-info" on a daily basis, and this valuable knowhow represents a significant and one-of-a-kind database.
Subscribers can access this database through a search engine on the Magneti Marelli portal, thus facilitating their repair work.

| ACCESSORIES | CODE |
|---|---|
| Annual Subscription Help Desk | 571729999015 |
| Annual Subscription Help Desk with ReTIS | 571729999016 |
| ANNUAL SUBSCRIPTION HELP DESK WITH AUTODATA | 571729999014 |

Specialized technical support:
- "All Makes" information and technical documentation (electrical diagrams, procedures, etc.).
- System to be diagnosed (engine control, air conditioning, gearbox, in-vehicle information equipment and entertainment, security systems, infotelematics).
- self-diagnosis message/error CODEs decoding
- Troubleshooting guide through a multi-brand diagnostic instrument
- mail service centre with a dedicated e-mail
- direct access to Assistance-info (fast problem solving)

**SINCE 1998: TECHNICAL HELP DESK BY VOCATION**

# TRAINING

Due to constantly evolving technologies, and specifically the development of electronics in the automotive world, there is an increasing tendency to rely on workshops that belong to a network.

This is why Magneti Marelli After Market Parts & Services has set up a network of Authorised Checkstar workshops that believes in professionalism as a trump card in the performance of its activities.
To achieve these goals, the Magneti Marelli AMPS Professional Training represents the basic component.
Technical training and vocational training activities are traditional aspects of the Magneti Marelli AMPS policy.

In an area that is crucial for the growth and development of the independent repair sector, these aspects take on characteristics of organic nature, wide scope of topics, degree of in-depthness such as to make Training one of the strategic elements that underlie the relationship between the Company and the Network.

Not a new type of training, but certainly an innovative way of training compared to the past. Moreover, a way capable of meeting the growing demand for technological updating from a constantly evolving world of repair work that requires increasingly selected and complex, sophisticated jobs to be carryout on the systems manufactured by the different carmakers.

The new Course programme enhances the professionalism of Workshops from a dual standpoint.
First, in the tradition of Magneti Marelli, its expands the knowledge of strategies related to high-tech automotive systems, by addressing specific topics that meet the growing demand for updates on constantly evolving automotive equipment.
It will also be possible to include updates on Magneti Marelli systems in “technological” Courses: an added plus provided at no extra charge.
Tradition and innovation come together in a training programme that will convey to all participants the need for as well as the pleasure of knowledge.
Course participants will also receive an important certificate.

| Ref. | Course Type | | | Course title | Duration |
|---|---|---|---|---|---|
| MM1 | Technical Training | Specialized courses | New | Toyota Prius (1.4i Hybrid) | 8 hours |
| MM2 | | | New | Alfa Romeo Mito (1.4 Multiair) | 8 hours |
| MM3 | | | New | Ford Fiesta Petrol | 8 hours |
| M01 | Technical Training | Specialized courses | | FIAT Grande Punto | 8 hours |
| M02 | | | | Citroen C1 – Toyota Aygo – Peugeot 107 | 8 hours |
| M03 | | | | BMW Series 3 (E 90) | 8 hours |
| M04 | | | | Volkswagen Golf V | 8 hours |
| M05 | | | | MINI MK1 | 8 hours |
| M06 | | | | FIAT Panda (Natural Power) and FIAT 500 | 8 hours |
| M07 | | | | FIAT Bravo (1.4i 16V LPG) | 8 hours |
| M08 | | | | Peugeot 207 (1.6i petrol engine BMW-PSA) | 8 hours |
| M09 | | | | Opel Astra | 8 hours |
| B01F | Technical Training | Basic | New | Basics of Automotive Electronics | 8 hours |
| B01 | | | | Automotive Electronics | 16 hours |
| B02 | | | | Automotive Mechanics | 16 hours |
| B03 | | | | Automotive Air-conditioning | 8 hours |
| B04 | | | | Automotive Diagnostics | 8 hours |
| B05 | | | | Mechanical Components (Disc Brakes and Shock Absorbers) | 4 hours |
| B06 | | | | Safety system electronics: Airbags, Teves and Bosch ABS | 4 hours |
| B07 | | | New | LPG fuel supply with application on the FIAT Bravo 1.4 engine (Bosch ME 7.3H4) | 4 hours |
| B08 | | | New | Methane fuel supply with application on the FIAT Panda 1.2 engine (MM IAW 5AF.PM) | 4 hours |
| B09 | | | New | Anti-particulate filter as applied on PSA/Ford engines | 4 hours |
| B10 | | | New | DPF filter as applied on FIAT Multijet engines | 4 hours |
| B11 | | | New | Electronic systems and safety in the coachwork | 8 hours |
| AP01 | Technical Training | Special focus | | Multijet Common Rail injection for FIAT Alfa, Lancia and Opel: 1.3 and 1.9 with DPF filter | 8 hours |
| AP02 | | | | Diesel Common Rail Hdi injection PSA Group | 8 hours |
| AP03 | | | | Diesel Common Rail Delphi injection Renault Group | 8 hours |
| AP04 | | | | Petrol injection for Asian vehicles – Toyota Yaris 1.0, 1.3 and 1.5 – Daewoo Matiz 0.8, 1.0 | 8 hours |
| AP05 | | | | Petrol injection Magneti Marelli IAW 5 SF3 FIAT Group and IAW 4TV for VW Group | 8 hours |
| AP06 | | | | Diesel and petrol injection for Mercedes and Smart | 8 hours |
| AP07 | | | | Petrol direct injection for VW Group and Alfa Romeo (FSI and JTS) | 8 hours |
| AP08 | | | | Common Rail TDCi Ford injection | 8 hours |
| AP09 | | | | Petrol injection IAW 6LP Magneti Marelli PSA Group | 4 hours |
| SP02 | Technical Training | Specialization | | LPG and methane systems for automotive applications (in collaboration with BRC) | 8 hours |
| SP03 | | | | | 8 hours |
| GE01 | Managerial Training | Managerial | | Customer Management | 4 hours |
| GE02 | | | | Servicing engine-powered vehicles (in collaboration with DEKRA) | 8 hours |
| GE03 | | | | Service Centre management (in collaboration with DEKRA) | 8 hours |
| GE04 | | | | Course for the Service Centre Technical Manager (in collaboration with DEKRA) | 30 hours |
| PV01 | After-sales training | Workshop SW | | Retis database and Magneti Marelli website | 16 hours |
| | | | | | |

# General supply terms

1. Responsibility
The Customer is responsible for the use of any equipment and any software programme made available by MAGNETI MARELLI AFTER MARKET PARTS & SERVICES S.P.A. (hereinafter referred to as MMAM) and sold by the retailer.
The Customer agrees to indemnify and hold harmless MMAM and the retailer for any liability and damages deriving from improper use of products and services sold by the retailer and purchased by the customer and from any use thereof that fails to comply with all the instructions, sequences and phases specified in the programmes and in the manual.
The Customer shall use all data and information however obtained from MMAM or directly from the dealer or through programmes and user manuals, aware of the fact that said data and information may not be exhaustive and that it should always be used to supplement to their professional knowledge.

2. Warranty
Upon receiving the products, the Customer shall verify that the product is intact, reporting any defects or defects within 15 days from the date of activation or delivery specified on the shipping documents.

EQUIPMENT: The Dealer warrants this product against manufacturing faults and defects found and recognized by the MMAM service network or a period of twenty-four (24) months from the date of product delivery or activation. This warranty consists in the Service Centre being required to restore functionality of the products, through the replacement or free repair of the defective parts.
The warranty does not cover defects or malfunctions resulting from: a) improper use or wrong/inadequate maintenance or calibration, b) software, interfaces, parts or consumables not supplied by the official MMAM sales and assistance network c) unauthorized modification or improper use; d) use of the products in environments that do not fall within the ranges specified for the product, and) wrong preparation or maintenance of the environment of use.



SOFTWARE / LICENSES: Although MMAM has taken all possible precautions to ensure accuracy of the information contained or displayed, it does not warrant that the software, or any information it contains and displays, is error-free. The data and material (in various forms) contained in the programs, or in the archives accessed by the Customer, may come from different sources including, for example: original material distributed by various carmakers and equipment supplied to MMAM by companies specialized in the development of this type of information. The warranty does not cover problems related to software conflict when the latter is installed on hardware platforms other than those made or specified by MMAM (i.e. commercial PCs, pocket PCs, tablet PCs). As a non-exhaustive example of problems not covered by the warranty, we list those generated by: incompatibility between MMAM programs and software environments with inadequate requirements or not protected by antivirus systems prevent proper installation and operation; environments damaged by viruses, environments supported by inadequate hardware resources.

PLACE WHERE ASSISTANCE UNDER WARRANTY PROVIDED: All repairs covered by warranty, unless otherwise agreed in writing, will be carried out at the MMAM or headquarters or at a service centre authorized by MMAM.

TRANSPORTATION: The warranty does not cover damages caused during shipping and by the breaking of inadequate packaging carried out by customers for products returned for repair purposes.
Unless otherwise agreed in writing, costs incurred to ship the product to be repaired from the customer's premises to the service centre and/or expenses incurred by MMAM or Service Centre personnel travelling to the customer's location shall be charged to the customer.

MAINTENANCE: Before the product is delivered to the customer, it is carefully tested by MMAM and by the Dealer. However, certain products always require routine maintenance. The right to repairs or replacements under warranty may be forfeited in case the minimum maintenance described in the user manual supplied with the product has not been carried out.